

Bulletin of the Native Plant Society of Oregon

Dedicated to the enjoyment, conservation, and study
of Oregon's native vegetation

VOLUME 32

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It's Still Renewal Time

The NPSO membership year is January to December.

Check your address label on the Bulletin. If there is a 98 on the top line, you have not renewed yet.

NPSO brings you field trips, programs, classes, the monthly Bulletin and the annual Kalmiopsis. Your membership and donations make it possible to carry out more of the many projects that are needed to pursue the goals of NPSO.

Membership Directory to be Published.

The 1999 edition of the NPSO Membership Directory will be published in April. If you wish to receive a copy, add two dollars to your renewal payment.

If you wish to have your address or telephone number, or both, withheld from publication in the Directory, please make a prominent note on your renewal form.

State News

July 30-Aug. 1, **Annual Meeting:** The 1999 Annual Meeting will take place in the high country of McKenzie Pass, and will be hosted by the Emerald Chapter. (See inside.)
Fri.-Sun.

Jan. 23, Sat., **Board Meeting:** 10 A.M. - 4 P.M. Avery House, Avery Park, Corvallis. (Near intersection of Avery Ave. & Allen St. Map in December Bulletin.) For more information call Corvallis Chapter President, Steve Northway, (541) 929-5375)

Chapter News

Blue Mountain

Jan. 4, Mon. **Meeting:** 7 P.M. Small Business Development Center, SE 1st & Dorian, Pendleton. Matt Voile, the new Umatilla County Weed Specialist, will talk about the county weed program and his hopes for the program's future directions.

Cheahmill

- Jan. 21, Thurs. **Meeting:** 7 P.M. Carnegie Room, McMinnville Public Library, 225 NW Adams, McMinnville. Kareen Sturgeon presents "Churchbells, Cowbells and Harebells," a lecture and slide show on hiking and botanizing in the Swiss Alps, where climate, geology and complex topography have produced one of the richest botanical regions in Europe. NOTE: THE JANUARY MEETING WILL BE ON THE 3RD THURSDAY, RATHER THAN THE REGULAR 4TH THURSDAY, AND THE MEETING PLACE IS CHANGED. THE MCMINNVILLE PUBLIC LIBRARY WILL BE THE REGULAR MEETING PLACE FROM NOW ON.

Corvallis

- Jan. 11, Mon. **Meeting:** 7: P.M. The Corvallis Chapter will be sponsoring a program on the "Monarch Butterfly and its Critical Habitat in the Willamette Valley" at the Good Samaritan Church in Corvallis (333 NW 35th St.; corner of 35th and Harrison). The featured speaker will be Dan Hillburn, coordinator of the Western Monarch Migration Survey program, with the Oregon Department of Agriculture. He will discuss monarch migration and biology. Local native milkweed seeds will be distributed for monarch habitat restoration. We are seeking people and ideas to engage in active personal stewardship of our Willamette Valley biota. For more information, call Steve Northway, (541) 929-5375. NOTE: CHANGE IN MEETING TIME AND LOCATION IS FOR THIS MONTH ONLY.

Emerald

- Jan. 9, Sat. **Field Trip:** Lichen walk led by Daphne Stone. Place not yet decided. Meet: 9 A.M., S. Eugene H.S., for this half-day trip. Bring rain gear, boots, hand lens, etc. For more information, call Bruce Newhouse, 343-2365.
- Jan. 25, Mon. **Meeting:** 7:30 P.M. Room 109, Science Building, main campus, Lane Community College. Marcia Cutler, LCC botany alumna, will tell us her experiences as the Central Oregon Ecologist at The Nature Conservancy's beautiful Juniper Hills Preserve. This 10,000-acre preserve, nestled in the high desert between the Ochoco and Maury Mountains, is known for its diversity of native bunchgrass communities. Directions: From 30th Ave., turn south on Eldon-Schafer Dr., go past Oak Hill School and park in LCC's south parking lot, east end. Walk downstairs to Science Building.
- Feb. 6, Sat. **Field Trip:** Winter twig walk, co-sponsored by Mt. Pisgah Arboretum and NPSO. Judith Manning, of MPA's Board of Directors, will take us on a two-hour walk and help us identify trees using only twigs. Meet: MPA's Visitor's Center, 10 A.M. Bring hand lens, ruler, pocket knife (if possible) and \$3 (\$2 for MPA members). You'll get a copy of Dr. Rhoda Love's "Key to Winter Twigs of Deciduous Trees and Shrubs at Mt. Pisgah Arboretum," rev. Oct. 1997. For more information, call 747-1504.
- Feb. 22, Mon. **Meeting:** 7:30 P.M. Room 109, Science Building, main campus, LCC. Louise Parsons, editor, North American Rock Garden Society Newsletter, will help us prepare for our High Cascades Annual Meeting, in her talk, "Western Cascades

Geology and Plants." Trained in geology, geography, gardening and art, Louise will give a "broad-brush amateur naturalist's point of view ... [placing] ... the plant treasures of this region into the totality of their natural range and setting." For directions, see January meeting.

March 15, Mon. **Meeting:** 7:30 P.M. Room 109, Science Building, main campus, LCC. Loren Russell, Corvallis Chapter member of NPSO, who is very knowledgeable about the mountain plants of WA., OR., and n. Cal., will talk on "Alpines in Oregon," another great preparation for the annual meeting. He'll compare the alpine vegetation of the Central High Cascades, the Wallowas and Steens Mtn., emphasizing the species richness, habitat diversity and geographical affinities of the mountains. For directions, see January meeting.

High Desert

Jan. 26, Tues. **Meeting:** 7: P.M. Central Oregon Environmental Center, 16 NW Kansas, Bend. Katie Grenier, Botanist, Deschutes National Forest, will present "So Many Weeds - So Little Time," a program on the biology, distribution and impacts that weeds are having on wild lands in central Oregon. Emphasis will be on the environmental effects and management strategies employed by the Deschutes NF, including the many creative partnerships that are evolving to wage war on weeds.

Klamath Basin

Jan. 12, Tues. **Meeting:** 7-9 P.M. Room 202, OIT campus, Klamath Falls. Speaker to be announced. For more information, please call David Lebo, 850-9770..

Mid-Columbia

Jan. 6, Wed. **Meeting:** 7:30 P.M. Columbia Gorge Discovery Center (in the theater). With maps and video, Jerry Igo tells about his recent botanical adventures in the southwestern United States, in a program titled, "Early Springtime in the Southwestern Desert." It's the next best thing to being there.

North Coast

For information on the North Coast Chapter, call Christine Stanley, 503 436-0161.

Portland

Jan. 9, Sat. **Field Trip:** Ferns, mosses, lichens. Call Greg Stone, 233-4761, for information.

Jan. 12, Tues. **Meeting:** 7 P.M. First United Methodist Church, 1838 Jefferson St., Portland. Duncan Thomas, Associate Professor, Forest Science, OSU, will present "the "Useful Plants of the Cameroon."

Siskiyou

Jan. 21, Thurs. **Meeting:** 7:30 P.M. Room 171, Science Building, Southern Oregon University, Ashland. Dr. Frank Lang will give a presentation titled "Serpentine Flora of Japan."

South Coast

For information on the South Coast Chapter, call Bruce Rittenhouse, 541-888-9328.

Umpqua Valley

Jan. 14, Thurs. **Meeting:** 7 P.M. Room 310, Douglas County Courthouse, Roseburg. Pete Figura, BLM botanist, will present lichen biology, its growth and reproduction. In addition to museum specimens brought for viewing, participants are encouraged to bring some too, being careful not to dislocate those long, ancient strands some produce.

Jan. 16, Sat. **Field Trip:** To view lichens, weather permitting.

Feb. 11, Thurs. **Meeting:** 7 P.M. Room 310, Douglas County Courthouse, Roseburg. Cheryl Beyer, plant biologist, will present a program on mosses.

Feb. 13, Sat. **Field Trip:** To collect and identify mosses. Meet: BLM parking lot, 777 Garden Valley Road, Roseburg, for 8 A.M. departure.

Willamette Valley

Jan. 11, Mon. **Meeting:** 7 P.M. Room 225, United Methodist Church, 600 State St. NE, Salem. This month will feature our annual UFO (Unidentified Flowering Object) night, where members bring some of their own slides to show. If anyone bringing slides would let me (Ed Myers, 399-1762) know, I would appreciate it. If you can't call, and still want to bring slides, please do so anyway. PLEASE NOTE: THIS MONTH'S MEETING IS ON THE 2ND RATHER THAN THE 3RD MONDAY.

Feb. 22, Mon. **Meeting:** 7 P.M. Room 225, United Methodist Church, 600 State St. NE, Salem. Ed Alverson will show slides and speak on "The Ecological History of the Willamette Valley." PLEASE NOTE: AGAIN MEETING DATE CHANGED BECAUSE OF HOLIDAY, THIS TIME FROM 3RD TO 4TH MONDAY.

William Cusick

Jan. 20, Wed. **Meeting:** 7 P.M., Forest and Range Laboratory, C Ave. & Gekeler Lane, La Grande. Berta Youtie presents a program on grassland restoration projects. A business meeting will follow at 8 P.M. Barbara is retiring as Chapter president, so come prepared with nominations for her successor. For information, call Dick Kenton, 963-7870.

IMPORTANT NOTE TO FIELD TRIP PARTICIPANTS

Field trips take place rain or shine, so proper dress and footwear are essential. Trips may be strenuous and/or hazardous. Participation is at your own risk. Please contact the trip leader or chapter representative about difficulty, distance, and terrain to be expected on field trips. Bring water and lunch. All NPSO field trips are open to the public at no charge (other than contribution to carpool driver) and newcomers and visitors are always welcome.

NOTICE TO FIELD TRIP CHAIRS AND LEADERS

The Forest Service and other agencies have set policies limiting group size in many wilderness areas to 12. The reason is to limit human impacts on these fragile areas. Each group using wilderness areas should be no larger than 12.

POSTAL NOTICE

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Opinions expressed in this publication are those of the authors of the articles.
They do not represent the opinions of the Native Plant Society of Oregon, unless so stated.

Guidelines for Contributors to the Bulletin

The NPSO Bulletin is published monthly as a service to members and the public.

All kinds of contributions are welcome. **Copy is due by the 10th of the month.**

CREDITS: Identify author and affiliation. If not original, cite source and date.

ILLUSTRATIONS: Line drawings and high contrast black-and-white prints useable.

Contact editor for current needs, or send illustrations with article.

BOTANICAL NOMENCLATURE: Follow "Flora of the Pacific Northwest" by Hitchcock, or "The Jepson Manual," where appropriate.

FORMAT: Submissions can be in any form. For further details, consult editor.

ORIGINALS: Submissions are not returned, unless requested.

This is a view you can see, if you go to the Annual Meeting next summer. It was drawn by Rhoda Love



South Sister and Sparks Lake in Oregon's Central Cascades

Aspen Enhancement in the Malheur National Forest

Quaking aspen is the most widely distributed native tree in the United States. But, a serious decline of aspen has occurred throughout the West. Oregon is experiencing this decline as much as any other state. Let me describe the problem we are experiencing in the Malheur National Forest in eastern Oregon, which is typical of the Blue Mountains.

Early records and clues available on the landscape indicate that aspen was once more abundant on the Malheur National Forest. Wildfires and fires set by Native Americans acted as a common disturbance to regenerate aspen stands and prevent conifer trees from invading and out-competing the shade intolerant aspen. Years of fire suppression have caused aspen stands to decline dramatically in size and number as conifers take over aspen sites and aspen are not stimulated to regenerate. Now that there are so few aspen, they have become "ice cream" plants for deer, elk, and livestock to forage on, and any new shoots that do occur are generally browsed sufficiently to inhibit growth. The loss of aspen is alarming, because, although this habitat component is relatively small on the Malheur, it is disproportionately important to several species of wildlife. The reduction of aspen also means that we are likely losing genetic variability of aspen clones, a dangerous situation that makes remaining clones more susceptible to such negative influences as disease.

We are trying to actively manage to enhance aspen stands. Our objective is to improve and expand aspen habitat. Rejuvenation by cutting encroaching conifers to reduce competition, burning stands and cutting some aspen to encourage regeneration through shoot suckering, and short term protection with fences will create aspen stands that provide long term habitat for many wildlife species including

grouse, neotropical migratory birds, several woodpeckers, deer, and elk, as well as native fish species through the enhancement of watershed function.

Aspen enhancement is costly, largely because it requires building substantial fences to keep cattle, deer, and elk out of the stand until regeneration is out of browse range. The Forest Service has recognized the importance of this problem and is beginning to provide more funding to conduct enhancement activities. Just this year the western Regions of the Forest Service provided \$66,700 per Region in a special initiative for aspen restoration. Field units had to compete for this funding, and while a good chunk of money, it did not go far toward funding the great need on the ground - of 31 submitted proposals in this Region, only three could be funded.

Partnerships that help the Forest Service with funding or provide labor and materials are a vital element in our effort to accomplish aspen enhancement. Not only do Partners provide direct benefits, but Partnerships are also important indirectly because they allow us to leverage more funding from our own agency. In this day of tight budgets, the Forest Service from the top levels down likes to see Partner contributions making a match with federal money. Many of our Partners operate the same way, for example Rocky Mountain Elk Foundation is more likely to fund project proposals that show a variety of Partners, especially if the project is not explicitly geared toward elk.

As a group dedicated to the conservation of native plants, the Native Plant Society of Oregon would be a valuable Partner in our aspen enhancement efforts. Cash, donated material, or labor are all valuable and greatly appreciated. A weekend work party during the summer months would be an excellent way for individual chapters to get involved with aspen

enhancement. A day of fence construction or monitoring could be combined with a native plant hike and barbecue for a fun outing in the Blue Mountains. If your chapter is interested in volunteering to help with aspen enhancement, please contact the Malheur National Forest to make arrangements. We'd love to have you join us! Contact: Malheur National Forest Attn: Libby Knotts, Wildlife Biologist. Email: lknotts/r6pnw_malheur@fs.fed.us P.O. Box 849. Phone: 541-575-3465 John Day, OR 97845

Grant Proposals Requested

The Native Plant Society of Oregon will continue to sponsor small field research grants. The objectives of the program are: 1) to stimulate basic field research into the biology and distribution of Oregon's native and naturalized flora and vegetation, particularly in the more remote areas of the state, and 2) to promote native plant conservation through better understanding of Oregon's flora and vegetation and the factors affecting their survival.

Persons interested in applying for funding can obtain a copy of the program policy and guidelines from Dan Luoma, Field Research Grants Committee Chair, 3740 NW Harrison Ave., Corvallis, OR 97330. The material may also be obtained at NPSO's World Wide Web site, <http://www.teleport.com:80/nonprofit/npsso/grants.htm> Research proposals are due by April 1, 1999 (note that this is a change of date.)

Kathleen Cheap Remembered

In last month's bulletin there was a short message announcing the death of Kathleen Cheap. we at the Blue Mountain Chapter would like to take just a few moments to tell you a bit more about Kathy and her life.

Kathy was born and raised in Vallejo, California, and graduated from Vallejo Senior High in 1969. She continued her education at Selano Community College in California, transferring to California State University at San Luis Obispo, graduating with a degree in Biology. Kathy earned her Masters Degree in Wildlife Science from New Mexico State University at Las Cruces. Kathy was employed by the US Department of the Interior for the last 16 years throughout the U.S. as a Biologist Refuge Manager. Her last position was lead Biologist for five refuges on the Columbia River in Eastern Oregon.

Kathy was a unique lady who had many talents and hobbies. She loved contra dancing and calling, horseback riding and was a skilled artist in numerous mediums. She was deeply concerned with environmental problems, and worked tirelessly to aid in preservation and restoration. We members of the Blue Mountain Chapter were fortunate to be able to assist Kathy in one of her projects on the Umatilla National Wildlife Refuge. We will always treasure that experience. She touched so many of our lives and gave us all a piece of her to carry on forever.

Jerry Baker, President, Blue Mountain Chapter

Introducing NPSO's New Friends of the Oregon Flora Project

You could spend your entire life awe-struck by the beauty of Oregon's flora. But eventually, you're going to pick a flower and try to key it out. Besides the name, you'd probably like to know where else these plants grow and if they are common or not. Depending on where you are in Oregon, figuring out a plant's identity could entail fruitless searching through several books of reference, either written for other geographic regions or woefully out-of-date. Enough of that nonsense! What we need is a new Flora of Oregon, a convenient, up-to-date, single-volume reference, so we can efficiently identify our floral beauties, and get back to being enthralled.

Well, work on the Oregon Flora Project is underway at Oregon State University. The goal of this ambitious undertaking is to produce a single-volume identification manual, complete with descriptions, line drawings and distribution maps for all native and naturalized plants in Oregon. The distribution maps, compiled into an Atlas of Oregon, also will be available on the Internet where you can click-on the dots and look at the data that describes each occurrence.

Like many great undertakings in botany, the Oregon Flora Project is mostly volunteer. Much of the labor in determining which plants grow where in Oregon will come from professional and recreational botanists who submit species lists to the Flora project and voucher specimens to the OSU Herbarium. The difficult work comes with compiling and organizing all the data necessary to assemble a Flora of Oregon. (And in supervising all of us industrious volunteers.)

The most crucial expense to the Oregon Flora Project is the cost of labor, which currently has no paid positions. Following the example of the Jepson Manual (Hickman 1993), producing the Flora of Oregon will require 6 full time workers employed over 10 years.

Oregon State University supports the Flora project by providing workspace, computers, and other crucial infrastructure. We applaud OSU's commitment to the Oregon Flora Project, especially during this era when universities around the world are rejecting classical taxonomy and discarding their herbarium specimens.

Now all we need is money to budget. To begin fund raising for the Flora project, OSU's Director of Development advised us to form a "Friends" group and demonstrate Oregon-wide support for a Flora of Oregon. To form the Friends group, we turned to those who have been the inspiration and elbow grease behind the Oregon Flora Project from the beginning: the Native Plant Society of Oregon. A Friends group sponsored by the prestigious NPSO could establish an active fund raising campaign on behalf of the Oregon Flora Project. At last summer's meeting, the NPSO board voted in favor of this idea. We are all now proud participants in the Oregon Flora Project!

One confusing detail needs to be made clear: with the establishment of the NPSO Friends of the Oregon Flora Project, there now are two avenues available to make donations. You may continue to donate directly to the OSU Foundation, or donations may be routed through NPSO via the Friends group. All the money goes into the same Oregon Flora Project account at OSU, with no hidden fees and no additional administrative costs. If you prefer making donations through the OSU Foundation, please continue to do so. The Friends group will focus on recruiting new donors, both individual and corporate. Fund raising for the Oregon Flora Project now will begin in earnest.

We have formed a Friends Committee, and we are looking for people to help us brainstorm. We would like to recruit a wide contingent of support. Perhaps you know just where we should look? If you have experience or enthusiasm, contact me, Keli Kuykendall, at 541.758.8409, kuykendk@peak.org or our new address: Friends of the Oregon Flora Project, PO Box 402, Corvallis OR 97333.

Thanks to the extra effort by the NPSO Bulletin Mailing Committee, you can read more about Friends of the Oregon Flora Project in the enclosed brochure. I am very grateful to Esther McEvoy and Rhoda Love who contributed their time, money and artistic talents to create these brochures. We will be distributing more brochures to NPSO Chapter presidents, so you can obtain additional copies for interested friends. Or call me, together we can help ensure the production of a new Flora of Oregon!

Keli Kuykendall
Corvallis Chapter

NPSO State Office Candidates 1999

The Nominating Committee offers the following list of candidates for state offices. Names of additional nominees and brief resumes will be printed in the February Bulletin. Any group of five or more dues-paying members may also submit nominations, with bios, to the Bulletin (with consent of the nominees). The February deadline is January 10th. Ballots will be included in the March issue.

President - Bruce Newhouse
Vice President - Michael McKeag
Secretary - Rhoda Love
Treasurer - Martha Apple

Continued on page 12

Siskiyou Field Institute

The Siskiyou Field Institute (SFI) will offer numerous courses and workshops for adults and youth from June 12-June 22. Last year over 300 people participated in programs focused on the natural history of the Siskiyous, and the greater Klamath Region. This year's multi-day programs include Geobotany of the Siskiyous taught by Drs. Art Kruckeberg and Robert Coleman, Fungi and Truffles of the Siskiyou Mountains with Dr. Dan Luoma, Nature Sketching taught by Dr. Frank Lang, Conifers of the Siskiyou Mountains with Dr. John Sawyer, Bryophytes of the Klamath Mountains taught by Dr. Steve Jessup, and Native Seed and Plant Propagation. One-day workshops and field trips include Grasses and their Habitats, Ethnobotany, and botanizing in the region. Programs for youth focus on lichens, soils, edible plants and butterflies. There will be over 30 courses which will overlap during the weekend of June 18-20 so participants will be able to come together in larger gatherings, including a banquet, round table forums, and the annual Illinois River Festival.

Dr. Robert Michael Pyle, an expert on butterflies, natural history of Oregon, and conservation management for biodiversity will present a keynote speech at the SFI banquet on June 18. Dr. Pyle will also lead a one-day workshop on butterflies of the region. There are numerous options for lodging and camping. We have rented the Sis-Q-Meadows Camp on Rough and Ready Creek, where bunk space, camping and meals are available. Camping and lodging are also available at local campgrounds and motels. We hope you'll be able to join us!

A brochure of course descriptions and other events will be available in February. If you are not already on our mailing list and want more information please contact the Siskiyou Field Institute at PO Box 220, Cave Junction, OR 97523; 541 592-4459; email institute@siskiyou.org.

Rough and Ready Creek And the Nicore Mine

The Story Continues

On November 23rd the Siskiyou National Forest released the Supplemental Environment Impact Statement for the Nicore Mine. The proposed nickel-laterite strip mine will, if approved, take place in the Rough and Ready Creek Area of Critical Environmental Concern and Botanical Area and the South Kalmiopsis Roadless Area. The Nicore SDEIS is available on the internet at <http://www.fs.fed.us/r6/siskiyou>. Public comments on the SDEIS must be postmarked by January 29, 1999. Comments and questions may be mailed to District Ranger, Illinois Valley Ranger District - 26568 Redwood Hwy. - Cave Junction Oregon 97523 or emailed to rdesser/r6pnw_siskiyou@fs.fed.us.

After the last article on the Nicore Mine, in the March, 1998, Bulletin (see also The Kalmiopsis, Vol. 4/1994), a spirited discussion ensued on the NPSO email discussion list. It was the opinion of some that 1) the issue was not appropriate for NPSO forums and 2) that if there was to be information in the Bulletin on the proposed mine that it should be analytical and impartial. The majority of the participant's in the discussion, however, were of the opinion that NPSO forums were an appropriate place to discuss issues affecting significant sensitive plant populations and habitat in Oregon. The debate that raged was thoughtful and inspiring. It demonstrated the depth of talent found within the NPSO membership and their commitment to preserving plants and their habitats.

Why should NPSO and its membership concern themselves with mining issues and the proposed Nicore Mine? My response is that the preservation of native plants and their habitats should be one of the primary focuses of NPSO and its membership in southwest Oregon (at this time) Mining, and the proposed Nicore

Mine in particular, is the most significant threat to globally rare and unique plant species, their communities and their habitats. The Oregon Biodiversity Analysis has found that the West Fork Illinois River Watershed in Southwest Oregon's upper Illinois Basin is the number one ranked 5th order watershed, out of 1,400 watersheds in the State. This ranking is based on the occurrence of rare plant species (source USDA Forest Service 1997). Rare species occurrence in this 5th order watershed is centered in the Rough and Ready Creek watershed and the adjacent Oregon Mountain Botanical area, primarily the area of the Nicore mining claims or a proposed ore haul route.

The SDEIS for the mine has developed 6 new alternatives to the mining plan that Nicore originally submitted. Nicore wants to develop approximately 15 miles of haul route, with 7 fords of Rough and Ready Creek and 11 of its tributaries, and 4 different mine sites. The Forest Service's new preferred alternative is to permit Nicore to mine a 5,000-ton bulk sample from the four proposed mine sites, using a helicopter to transport the ore (heavy equipment would still be allowed to drive through the Botanical Area and South Kalmiopsis and across the streams to access the mine sites).

Two preliminary evaluations of the economics of the Nicore proposal (prepared by specialty metals consultants and commissioned by The Nature Conservancy), the Forest Service's own economic analysis in the SDEIS and the surface use determination, the absence of a processing facility, rapidly falling prices for nickel ore and numerous technical and substantive comments submitted by the public provided the justification for the new preferred alternative. The preliminary economic evaluations further noted that the entire Rough and Ready ore body was far smaller than any other similar ore body being considered for commercial exploitation. In other words Nicore would have to mine hundreds of acres, not 35 acres as proposed, to economically justify exploitation. Nicore immediately announced that the preferred

alternative to their original plan of operations violates their rights under the 1872 Mining Law and that they will seek legal remedies.

While the Forest Service has taken a big step in identifying the bulk sample/helicopter alternative as their new preferred alternative, the SDEIS's economic analysis, the high ecological and amenity values in the Rough and Ready Creek Area, and the current and foreseeable depressed market conditions for nickel-laterite ore, all point to the high likelihood that Nicore, under the 1872 Mining Law, indeed has no right to mine Rough and Ready Creek. Given these circumstances, the "No Action (no mining)" alternative must be selected by the land managing agencies.

Rights granted by the Mining Law are predicated on the condition that a valuable mineral has been discovered. Would you invest millions of dollars, given the following factors? There currently is a glut on the world market of much higher-grade nickel ore and two new Australian mines are about to go on line. Ore prices are expected to be at an all time low for many years. The only processing facility in the United State is closed and will soon be dismantled. Costs of complying with environmental regulations for the Nicore Mine are high and nationally and globally important public and ecological values are at risk. Considering these factors it appears that the Rough and Ready/South Kalmiopsis ore bodies do not meet the definition of a valuable mineral. The action the land managing agencies (Forest Service and BLM) must take in responding to Nicore's mining plan is not to permit any further degradation of the area and to protect the public's trust through the following measures:

- 1) Determine if Nicore has the right to mine by conducting validity exams on the mining claims prior to approving any surface disturbing activity, and

- 2) Recommend the withdrawal of the Rough and Ready Creek/South Kalmiopsis area from mineral entry.

NPSO, as individual members and as an organization can help seek permanent protection for this botanically important area in the following ways:

- 1) Submit comments on the Nicore SDEIS requesting that the managing agencies select the No Action alternative and that they immediately take the above two steps to determine whether Nicore has a right to mine. Ask them to permanently protect the Rough and Ready/South Kalmiopsis Area from future mining. It is also very important to provide the land managing agencies with any botanical/ecological justification for the mineral withdrawal of the area described above and to emphasize the high amenity values of the area.

- 2) Write your congressional representatives and request that they seek permanent protection for the Rough and Ready/South Kalmiopsis Area. Also urge them to support full mineral withdrawal of the area and mining claim validity determination.

- 3) Beyond the comment period, focus plant survey efforts and interest in the Rough and Ready/South Kalmiopsis Area.

The Oregon State University Lichen and Bryophyte Study Group: An example of ways to help.

In February of 1998 members of the Oregon State University Lichen and Bryophyte Study Group, an organization comprised of graduate students, professors and other professionals interested in lichen and bryophyte taxonomy, biogeography, and ecology, conducted a two-day cursory survey of several sites in the Rough and Ready Creek watershed. Prior to the visit, little was known of the non-vascular flora of the area. Over 100 species were identified over the two days and while the list of species compiled was not complete, the groups shared it with the Forest Service and BLM.

Significant finds included: 1) two locations of *Bryoria tortuosa*, a survey and manage, strategy 1 species in the Northwest Forest Plan; 2) *Lecidea delodes*, a crustose lichen considered threatened with extirpation throughout its range by the Oregon Natural Heritage Program; 3) Crustose lichens of the Order Caliciales. Species of this group are thought to be indicators of late-seral conditions. Seventeen species of this order, including one new to the Western Hemisphere were documented. In addition, two specimens may be undescribed species.

Barbara Ullian, Conservation Director

Siskiyou Regional Education Project, P.O. Box 1877, Grants Pass, Oregon 97528

Phone/Fax (541) 474-2265 E-mail barbara@siskiyou.org

State Office Nominees

Continued from page 9

Directors-at-large - Veva Stansell, Esther McEvoy, Dave Dobak

Nominations Committee:

Dan Luoma, Chair

Veva Stansell

Dick Brainerd

NPSO Items for Sale

Oregon's Rare Wildflower Poster depicts Punchbowl Falls and three of the Columbia River Gorge's endemic wildflowers. Text on the back describes the natural history of the Gorge and the mission of the NPSO. Available from Stu Garrett, 21663 Paloma Dr., Bend, OR 97701 (541) 389-6981. Individuals may order posters at \$12 each, plus \$3 per order for shipping. Posters are mailed in tubes. Chapter treasurers may contact Stu for wholesale prices to chapters.

NPSO Window Stickers are decals with NPSO's trillium logo in green over an opaque white background, for use inside car windows. Available from Stu Garrett, \$1, minimum order five.

NPSO's Original Wildflower Poster depicts 13 Oregon wildflowers in a striking artist's rendition. Soon to be a collector's item. Available from Stephanie Schulz, 84603 Bristow Rd., Pleasant Hill, OR 97455, \$5 each, plus \$3 per order for shipping. Posters are mailed in tubes.

Conservation and Management of Native Plants and Fungi: Proceedings of an Oregon Conference on the Conservation and Management of Native Vascular Plants, Bryophytes, and Fungi. Edited by Thomas N. Kaye, Aaron Liston, Rhoda M. Love, Daniel L. Louma, Robert J. Meinke, and Mark V. Wilson, with a foreword by Reed F. Noss. Available from NPSO Conference Proceedings, 1803 Cedar St., La Grande, OR 97850. (541) 962-7749. \$20 plus \$5 for shipping for the first copy, \$2.50 for shipping, each additional copy.

Annual Meeting 1999

Community and Plant Highlights

Emerald Chapter has some botanical treats in store for you at the 1999 Annual meeting in the Central Cascades. Last month Rhoda Love wrote that fire and ice have created many plant communities in this lovely alpine area. This month I review some of those communities and the unique species we hope to see there.

Communities:

West Slope Evergreen Forests -- Example: White Branch Camp. Pacific silver fir, mountain hemlock, western red cedar. Deeply-shaded, forest floor rich with humus. Abundant ferns and moss. Flowers: bead lily (*Clintonia uniflora*); Indian pipe (*Monotropa uniflora*); bunch berry (*Cornus unalaschensis*); Rattlesnake plantain (*Goodyera oblongifolia*); round leaved violet (*Viola orbiculata*); sugar scoop (*Tiarella trifoliata*); twin flower (*Linnaea borealis*).

Woodland Streamside and Waterfall Communities -- Examples: White Branch Creek and Falls, Proxy Falls. Ferns: maidenhair fern (*Adiantum aleuticum*); lady fern (*Athyrium filix-femina*); oak fern (*Gymnocarpium disjunctum*). Shrubs: salmon berry (*Rubus spectabilis*); devil's club (*Oplopanax horridum*). Flowers: enchanter's nightshade (*Circaea alpina*); twisted stalk (*Streptopus amplexifolius*); stenanthium (*Stenanthium occidentale*); Lewis' monkeyflower (*Mimulus lewisia*).

Lake Edges and Adjacent Seepage Areas -- Examples: Hand Lake, Benson/Tenas Lakes; Huckleberry Lake. Carices, rushes and Isoetes. Flowers: Gorman's buttercup (*Ranunculus gormanii*); creeping buttercup (*Ranunculus flammula*); western aster (*Aster occidentalis*); arrowhead groundsel (*Senecio triangularis*); Jeffrey's shooting star (*Dodecatheon jeffreyi*); elephant's head (*Pedicularis groenlandica*); musk monkeyflower (*Mimulus moschatus*); fan

foil cinquefoil (*Potentilla flabellifolia*); alpine speedwell (*Veronica wormsjoldii*).

High Montane Meadows -- Examples:

Fingerboard Prairie; Hand Lake Meadow; Linton Lake Meadow. Ferns: leathery grape-fern (*Botrychium multifidum*); little grape-fern (*Botrychium simplex*). Flowers: Brewer's cinquefoil (*Potentilla breweri*); Newberry's gentian (*Gentiana newberryi*); twisted ladies tresses (*Spiranthes romanzoffiana*); long stalked clover (*Trifolium longipes* var.

hansenii); Gray's lovage (*Ligusticum grayi*); American bistort; (*Polygonum bistortoides*); broadleaf lupine (*Lupinus latifolius*); Cascade aster (*Aster edophyllus*); alpine fleabane (*Erigeron peregrinus*); many grasses and sedges. Lava Beds -- Examples: McKenzie Pass and Santiam Pass roadsides; Dee Wright Observatory; Matthieu Lakes/Yapoah Crater. Vine maple (*Acer circinatum*); dwarf ocean spray (*Holodiscus dumosus* var. *glabrescens*); Davidson's penstemon (*Penstemon davidsonii*).

Timberline and Alpine Ridges, Fell Fields, Scree -- Examples: Mt. Bachelor, Yapoah Crater, Belknap Crater, North, Middle and South Sister, Tam MacArthur Rim, Ball Butte. Low compact perennials with large taproots: partridge foot (*Luetkea pectinata*), Newberry's knotweed (*Polygonum newberryi*); dirty socks (*Eriogonum pyrolifolium*); dwarf hulsea (*Hulsea nana*); silver raillardella (*Raillardella argentea*); Yellow-bracted paintbrush (*Castilleja arachnoidea*); alpine lupine (*Lupinus lepidus* var. *lobbii*); alpine sorrel (*Oxyria digyna*); red mountain heather (*Phyllodoce empetriiformis*); white mountain heather (*Cassiope mertensiana*); pussypaws (*Calyptridium umbellatum*); golden draba (*Draba aureola*); pumice grape-fern (*Botrychium pumicola*).

Remember: "Get High the Last Summer of the Millennium!" Annual Meeting July 30, 31 and August 1. White Branch Youth Camp. McKenzie Highway.

Charlene Simpson, Emerald Chapter

Annual Meeting - Other Accommodations

We've been told that places 'up the McKenzie River' fill up very fast, so we recommend that you make your reservations ASAP, if you're not planning on staying at the White Branch Youth Camp (lodging \$8 per night). Thanks to John Koenig and Sylvia Giustina for their fine work in putting this list together!

Upper McKenzie River Accommodations:

Belknap Lodge and Hot Springs - 541-822-3512 Lodge Rooms-rates from \$60 to \$90 Wooded camping spaces available for tents (hike-in sites only) - \$12 per site per two people per day Wooded RV spaces by riverside - \$18 per day per two people Hot mineral springs pools and bike rentals available About 8 miles from White Branch Camp on McKenzie Hwy.

Caddisfly Resort - 541-822-3556, (email <rdlauer@aol.com>) Three cottages with kitchens on river-rates \$65 for two people On McKenzie Hwy. near McKenzie Bridge

Camp Yale - 541-822-3961 RV Park - \$12-\$15 per day per two people Tent facilities - 10 spaces. Near White Branch Camp on Old McKenzie Hwy.

Cedarwood Lodge - 541-822-3351 Two cabins at McKenzie Bridge. Full kitchens. \$70 - \$80.

Fry's Double J - 541-822-3304 Two rooms at McKenzie Bridge- \$79 per night.

Heaven's Gate Cottages - 541-822-3214 Four rooms. Located in Vida.

Holiday Farm Resort - 541-822-3715 Small cottages (2 ppl) \$125-\$150; Big Cottages (3 bed- 2 bath) \$325-\$375 Lodge (sleeps 8-9) \$375 On McKenzie River Drive near McKenzie Bridge

Horse Creek Lodge - 541-822-3243 Seven rooms near McKenzie Bridge Log Cabin Inn - 541-822-3432, (email <lci@rio.com>)

Log cabins with fireplaces on riverfront-\$75-\$85 for two people per day Teepees in meadow-\$45-\$55 per day Some cable

television. Basketball, volleyball, horseshoes, fishing. New nature trail and gardens. On McKenzie Hwy. at McKenzie Bridge

Loloma Lodge - 541-822-3830 Variety of accommodations from cabins (\$75-\$120) to lodges (\$160-\$325) Secluded riverfront housekeeping cottages and vacation homes on McKenzie River. Full kitchens and fireplaces. Tokatee Golf Course nearby. On McKenzie Hwy. near McKenzie Bridge

McKenzie River Inn - 541-822-6260 Four rooms. Located in Vida.

Osprey Inn - 541-822-8186 (email <ospreyinn@aol.com>) Elegant Bed & Breakfast on the McKenzie River. All bedrooms have private bathrooms, queen-size beds and perfect views of the river. \$110-\$135. 56532 North Bank Road, McKenzie Bridge

River's Edge Inn - 541-822-3258 (email <riversedge@nu0-world.com>) Variety of accommodations-\$80-\$125. Located near Blue River at 91241 Blue River Road.

Riverside Inn - 541-896-3218 Four rooms. Located in Vida.

Sleepy Hollow - 541-822-3805 Nineteen rooms, \$47 double, \$43 single.

Wayfarer Resort - 541-896-3613 Full housekeeping cottages in a park-like setting on the McKenzie River and Marten Creek. \$75 - \$200 (studios, 1, 2, 3, 4 bedroom cottages and an octagon that sleeps 8). Tennis court, hot tub and some air conditioning. Located at 46725 Goodpasture Road near Vida.

Woodland Cottages - 541-822-3597 Located in Blue River

There will be a list of campgrounds in the February Bulletin, plus a description of the living facilities at the White Branch Youth Camp.

Marcia Jayne Cutler

Emerald Chapter

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Membership is for the calendar year.

New memberships enrolled after September 1 include the following year.

Send completed form and full remittance to:

Jan Dobak, NPSO Membership Chair, 2584 NW Savier St., Portland, OR 97210-2412

Membership in the Native Plant Society of Oregon is open to all.

Membership applications, renewals and change of address (include old address) should be sent to the Membership Chair

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CHAPTER PRESIDENTS

BLUE MOUNTAIN (Pendleton) Jerry Baker 58840 Bar M Lane, Adams, OR 97810-3003; (541) 566-3381
 CHEAHMILL Kareen Sturgeon 1135 Winterwood Loop, McMinnville, OR 97128; (503) 472-0866
 CORVALLISSteve Northway 24073 Decker Rd., Corvallis, OR 97333-9510; (541) 929-5375
 EMERALD (Eugene).....Gail Baker & Rhoda Love 3927 Shasta View St., Eugene, OR 97405-4442; (541) 344-8377
 HIGH DESERT (Bend).....Stu Garrett..... 1501 NE Medical Center Dr., Bend, OR 97701; (541) 389-6981
 KLAMATH BASIN.....David Lebo..... 642 Front St., Klamath Falls, OR 97601-1914; (541) 850-9770
 MID-COLUMBIABarbara Robinson P.O. Box 682, Mosier, OR 97040; (541) 296-5334
 NORTH COAST.....Christine Stanley..... P.O. Box 201, Cannon Beach, OR 97110-0201; (503) 436-0161
 PORTLANDShane Latimer 1605 SE 36th Ave., #3, Portland, OR 97214-5123; (503) 232-7405
 SISKIYOUJennifer Beigel & John Roth..... P.O. Box 1846, Cave Junction, OR 97523-1846; (541) 592-2831
 SOUTH COASTTim Rodenkirk 611 N. 12th St., Coos Bay, OR 97420; (541) 269-4696
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 WILLAMETTE VALLEY (Salem)Walt Yungen 2020 Center St. NE, Apt. 32, Salem, OR 97301; (503) 581-9511
 WM CUSICK (La Grande).....Barbara Russell..... 1803 Cedar St., La Grande, OR 97850; (541) 962-7749

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EDUCATION.....Jerry Igo P.O. Box 603, Mosier, OR 97040
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 CONSERVATION, EAST SIDE.....Stu Garrett..... 1501 NE Medical Center Dr, Bend 97701; (541) 389-6981
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 LEGISLATIVE.....Steve Hinton 623 NE Brazee St., Portland 97212; (503) 281-4124
 MEMBERSHIPJan Dobak 2584 NW Savier St, Portland 97210-2412; (503) 248-9242
 BUDGETS AND GRANTSDan Luoma 3740 NW Harrison, Corvallis 97330; (541) 752-8860

PUBLICATIONS

BULLETIN EDITORJohn Robotham 117 NW Trinity Pl, Apt. 28, Portland 97209; (503) 226-6371
 KALMIOPSIS EDITORLinda Ann Vorobik RR 1 Box 1964, Lopez Island, WA 98261-9528; (360) 468-3188
 WEBMASTERLisa Karst..... 8730 SW Washington Dr., Portland, 97223-6866, (503) 977-9818

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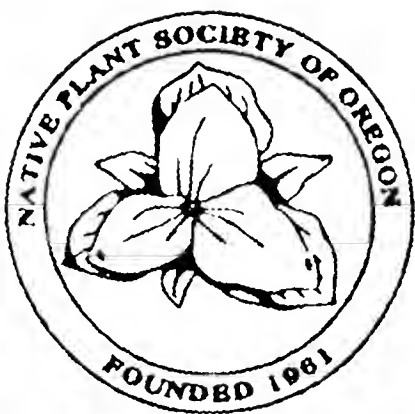
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or correspond directly with the Officers and Committee Chairs listed on the inside back page.

Membership Inquiries Only: Jan Dobak, 2584 NW Savier St., Portland, OR 97210-2412



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Dedicated to the enjoyment, conservation, and study
of Oregon's native vegetation

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It's Still Renewal Time

The NPSO membership year is January to December.

Check your address label on the Bulletin. If there is a 98 on the top line, we have not received your renewal yet.

NPSO brings you field trips, programs, classes, the monthly Bulletin, and the annual Kalmiopsis. Your membership and donations make it possible to carry out more of the many projects that are needed to pursue the goals of NPSO.

Membership Directory to be Published

The 1999 edition of the Membership Directory will be published in April. If you wish to receive a copy, add two dollars to your renewal payment.

If you wish to have your address or telephone number, or both, withheld from publication in the directory, please make a prominent note on your renewal form.

It's Tax Time -- See Page 21

State News

July 30 - Aug. 1 **Annual Meeting:** The 1999 Annual Meeting will take place in the high country of
Fri. - Sun. McKenzie Pass, and will be hosted by the Emerald Chapter. (See inside.)

Chapter News

Blue Mountain

Feb. 1, Mon. **Meeting:** 7 P.M. Small Business Development Center, SE 1st & Dorian, Pendleton.
Sandy Ott of the Native Plant Nursery of the Confederated Tribes of the Umatilla
Indian Reservation will present "Production Techniques of Native Plants."

March 1, Mon. **Meeting:** 7 P.M. Small Business Development Center, SE 1st & Dorian, Pendleton.
Jim McIver, an entomologist from La Grande, will present "Ants Put It Up With

Honey Too: Food Storage and Ants," which focuses on ants dependent on *Artemisia tridentata*.

Cheahmill

- Feb. 25, Thurs. **Meeting:** 7 P.M. Carnegie Room, McMinnville Public Library, 225 NW Adams, McMinnville. Wapato for the People. Anthropologist Melissa Darby presents a slide show telling how wapato (*Sagittaria latifolia*) was used by Native Americans and by wildlife on the lower Columbia River, and why its population has been decimated..
- March 25, Thur. **Meeting:** 7 P.M. Carnegie Room, McMinnville Public Library, 225 NW Adams, McMinnville. The Oregon Flora Project. Scott Sundberg, Research Associate in Botany and Plant Pathology at OSU, will present an update on his work of producing a manual for the identification of plants in Oregon.

Corvallis

- Feb. 8, Mon. **Meeting:** 7:30 P.M. Avery House, Avery Park, Corvallis. Loren Russell, esteemed local naturalist, will be presenting "Plants of Mary's Peak (and some insects)." For more information, call Steve Northway, 929-6375.

Emerald

- Feb. 6, Sat. **Field Trip:** Winter twig walk, co-sponsored by Mt. Pisgah Arboretum and NPSO. Judith Manning, of MPA's Board of Directors, will take us on a two-hour walk and help us identify trees using only twigs. Meet: MPA's Visitor's Center, 10 A.M. Bring hand lens, ruler, pocket knife (if possible) and \$3 (\$2 for MPA members). You'll get a copy of Dr. Rhoda Love's "Key to Winter Twigs of Deciduous Trees and Shrubs at Mt. Pisgah Arboretum," rev Oct. 1997. For more information, call 747-1504.
- Feb. 22, Mon. **Meeting:** 7:30 P.M. Room 109, Science Building, main campus, Lane Community College, Eugene. Louise Parsons, editor, North American Rock Garden Society Newsletter, will help us prepare for our High Cascades Annual Meeting, in her talk, "Western Cascades Geology and Plants." Trained in geology, geography, gardening and art, Louise will give a "broad-brush amateur naturalist's point of view ... [placing] ... the plant treasures of this region into the totality of their natural range and setting." Directions: From 30th Ave., turn south on Eldon-Schafer Dr., go past Oak Hill School and park in LCC's south parking lot, east end. Walk downstairs to Science Building.
- March 15, Mon. **Meeting:** 7:30 P.M. Room 109, Science Building, main campus, LCC, Eugene. Loren Russell, Corvallis Chapter member of NPSO, who is very knowledgeable about the mountain plants of WA., OR. and n. CAL., will talk on "Alpines in Oregon," another great preparation for the annual meeting. He'll compare the alpine vegetation of the Central High Cascades, the Wallowas and Steens Mtn., emphasizing the species richness, habitat diversity and geographical affinities of the mountains. For directions, see the February meeting.

High Desert

- Feb. 23, Tues. **Meeting:** 7 P.M. Central Oregon Environmental Center, 16 NW Kansas, Bend. Dr. Stu Garrett presents "Oregon Landscapes: Then and Now."
- March 23, Tues. **Meeting:** 7 P.M. Central Oregon Environmental Center, 16 NW Kansas, Bend. Dr. Lucille Housley, Botanist/Ecologist, BLM, Lakeview District, presents "Another Reality; the plant world of indigenous people in the Intermountain West." She'll show slides and discuss plants used for food and fiber, and demonstrate taxonomic keys she's developed for identifying plants of use.
- April 27, Tues. **Meeting:** 7 P.M. Central Oregon Environmental Center, 16 NW Kansas, Bend. Dr. Greg Reigal, Area Ecologist, US Forest Service, presents "The Area Ecology Problem: Ongoing Research on National Forest Lands of Central and South-Central Oregon." Among other things, he will discuss recent research in ponderosa pine ecosystems, especially fire ecology, fire history and fire management.

Klamath Basin

- Feb. 9, Tues. **Meeting:** 7-9 P.M. Room 202, Owens Hall, OIT campus, Klamath Falls. Wendell Wood, Oregon Natural Resources Council, will give a presentation on wildlife, old-growth forest and other ecological issues concerning the proposed Pelican Butte ski resort project. For more information, please call David Lebo, 883-8393.

Mid-Columbia

- Feb. 3, Wed. **Meeting:** 7:30 P.M. Discovery Center Theater, in The Dalles. Greg Koonce, a hydrologist, will speak on issues to consider in wetland restoration.
- March 3, Wed. **Meeting:** 7:30 P.M. Discovery Center Theater, in The Dalles. Program to be announced.

North Coast

For information on the North Coast Chapter, call Christine Stanley, 503 436-0161.

Portland

- Feb. 9, Tues.. **Meeting:** 7 P.M. First United Methodist Church, 1838 Jefferson St., Portland. Loren Russell presents a program on the alpine plants of Oregon.
- Feb. 21, Sun. **Field Trip:** Winter twig identification. For more information, call Greg Stone, 652-1531.

Siskiyou

- Feb. 18, Thurs. **Meeting:** 7:30 P.M. Room 171, Science Building, SOU, Ashland. Wayne Rolle will give a presentation, "Flora of the Red Buttes Wilderness, Siskiyou County, Cal.

South Coast

For information on the South Coast Chapter, call Bruce Rittenhouse, 541-888-9328.

Umpqua Valley

- Feb. 11, Thurs. **Meeting:** 7 P.M. Room 310, Douglas County Courthouse, Roseburg. Cheryl Beyer, plant biologist, will present a program on mosses.
- Feb. 13, Sat.. **Field Trip:** To collect and identify mosses. Meet: BLM parking lot, 777 Garden Valley Road, Roseburg, for 8 A.M. departure.

Willamette Valley

- Feb. 22, Mon. **Meeting:** 7 P.M. Room 225, United Methodist Church, 600 State St. NE, Salem. Ed Alverson will show slides and speak on "The Ecological History of the Willamette Valley." PLEASE NOTE: MEETING DATE CHANGED FROM 3RD TO 4TH MONDAY BECAUSE OF HOLIDAY.
- March 15, Mon. **Meting:** 7 P.M. Room 225, United Methodist Church, 600 State St. NE, Salem. Morris Johnson will give a talk and show slides of microscopic parts of plants, in a program called "Plants, very close-up and personal (a microscopic view)."

William Cusick

- Feb. 17, Wed. **Meeting:** 7-9 P.M., Forest and Range Laboratory, C Ave. & Gekeler Lane, La Grande. Mike McInnis, Range Science Professor at EOU in La Grande, will demonstrate how to identify grasses. This will be a hands-on session, so bring a hand lens and dissecting tools if you have them, and learn some of our native grasses. Program 7-8, business meeting 8-9.

IMPORTANT NOTE TO FIELD TRIP PARTICIPANTS

Field trips take place rain or shine, so proper dress and footwear are essential. Trips may be strenuous and/or hazardous. Participation is at your own risk. Please contact the trip leader or chapter representative about difficulty, distance, and terrain to be expected on field trips. Bring water and lunch. All NPSO field trips are open to the public at no charge (other than contribution to carpool driver) and newcomers and visitors are always welcome.

NOTICE TO FIELD TRIP CHAIRS AND LEADERS

The Forest Service and other agencies have set policies limiting group size in many wilderness areas to 12. The reason is to limit human impacts on these fragile areas. Each group using wilderness areas should be no larger than 12.

POSTAL NOTICE

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Opinions expressed in this publication are those of the authors of the articles.
They do not represent the opinions of the Native Plant Society of Oregon, unless so stated.

We Welcome New Members Joining From 10/18/98 To 12/31/98

Corvallis

Sarah Fairbank
Laurie Halsey
Dylan B. Keon
Cynthia Lipp
Philip and Judith Neher
Kim Roberts

Emerald

Alice Doyle
Herm Fitz
Justin Harris
Gail Karuna
Dawn Katona
Jeani Sapienza
Judith Sprauer

High Desert

Andrew McWilliams

Klamath Basin

Gary Cassady
George Meyer

Mid-Columbia

Patricia Horn

Portland

John Bishop
Jenny Bush
Dale A. Horchner
Jean and Walt Meihoff
Laura Nobel
Brian Perleberg
Laurie Ann Rooper
Alicia D. Sheprow

Siskiyou

Jennifer Brown
Marie E. Moser

South Coast

Robyn Darbyshire

Willamette Valley

Karlynn Huling

William Cusick

Donna Hammer

At Large

M. Amaral

IT'S TAX TIME

The Internal Revenue Service requires non-profit organizations to acknowledge in writing all contributions of \$75 or more. We believe this has been done, but any member who has not received an acknowledgement should contact the Membership Committee immediately.

The Board of Directors has adopted the policy that the first \$18 of any membership payment represents value received (subscription to the Bulletin and Kalmiopsis), and only that part of dues payment exceeding \$18 is considered tax deductible for Federal and Oregon income tax purposes. Members requiring further information should consult their tax advisers.

Jan Dobak, Membership Committee

Prices Dropped on Flora ID

Northwest Plant Keys

Thanks to the response over the last four years, we have been able to recover our expenses, and we have lowered the prices for computer plant keys up to 60%. For information, or ordering, see www.ucinet.com/~floranw, or contact Bruce Barnes, 135 SE 1st, Pendleton, OR 97801, (O) 541-278-2222, (H) 541-276-5547, FAX 541-276-8405.

Book Review

Oregon's Living Landscape: Strategies and Opportunities to Conserve Biodiversity, Oregon Biodiversity Project, A Defenders of Wildlife Publication, 1998. Available through Oregon State University Press, Dept. DW, 10 Waldo Hall, Corvallis OR 97331-6407. Photographs, maps, illustrations, bibliography, index, 24 x 30" color poster. 218 pages. \$29.95.

This is a wonderful reference book that anyone concerned with conserving Oregon's native species and habitats will want to own. It is the product of over four years of "inquiry, analysis, discussion, and debate" by members of the Oregon Biodiversity Project (OBP), a collaborative effort among scientists, conservationists, land managers, and leaders from the business community "to develop a statewide strategy to conserve Oregon's natural biological diversity." A first step in any conservation effort is necessarily to determine what must be conserved and this is precisely what the OBP set out to do in this book. But the strength of the report is that it does more than just this: it identifies locations, in each ecoregion, where conservation efforts might best be directed, and it makes concrete recommendations for how best to accomplish conservation goals.

With over 75 maps generated using GIS technology, top quality color photographs, and in highly readable prose, the authors first introduce the reader to biodiversity (Ch. 1 "Biodiversity Basics"): what it is, why it is declining, "coarse" and "fine filter" approaches to conserving biodiversity, and the value of the landscape level or "big picture" approach taken by the OBP. In Ch. 2 ("A Strategy for Conserving Biodiversity"), they identify important "themes," or win-win strategies, that are more likely to effectively guide

conservation efforts than the polarized positions ("jobs vs. owl") of the early 90s;

for example, they encourage land managers to develop partnerships and other cooperative arrangements as they work toward more "biodiversity-friendly management" on public and private lands, and they advocate providing conservation incentives, whenever possible, rather than relying solely on regulatory disincentives.

In Ch. 3 ("Statewide Overview"), the reader is introduced to the rating system used by the OBP to rank lands according to their ability to conserve biodiversity and to the interesting, and alarming, results of such an analysis. For example, less than 10% of all vegetation types statewide are currently classified in the Current Conservation Network (CCN), those lands most capable of conserving biodiversity. Full color maps of current and historic vegetation patterns offer dramatic testimony to the declines of some vegetation communities (e.g. prairie and oak savanna) and the equally remarkable spread of others (e.g. western juniper).

Ch. 4 ("Assessing Oregon's Ten Ecoregions") evaluates conservation issues and opportunities in each of the state's 10 ecoregions. Each section includes maps and text describing lands in the CCN, historic and current vegetation patterns, and at-risk species. Those areas within each ecoregion that offer the greatest opportunities for conservation are identified and discussed in detail. For example, in the Willamette Valley Ecoregion, "one of the state's most altered ecoregions," habitat alterations and disruptions in basic ecosystem processes, such as fire regimes and hydrology, have been so extensive that "opportunities for large-scale protection or restoration of native landscapes are limited." Nevertheless, the report identifies five areas (West Eugene wetlands, Willamette River floodplain, the Muddy Creek and North Corvallis areas, and the Columbia River bottomlands) where ecosystem structure and

function might be enhanced and at-risk species conserved.

Ch. 5 ("Conclusion") summarizes the major conservation issues facing the state and identifies policy and institutional barriers that will have to be overcome if conservation is to become a priority for Oregon. In the end, the recommendations boil down to three principles: protect and maintain what remains of native habitats and species; restore habitats and ecosystem processes wherever possible; and practice better stewardship on lands managed primarily for values other than biodiversity conservation. In my view, the most important contribution this book makes may be as much in its clear statement of values as in its wealth of information.

"Biological diversity must be a core value for Oregonians," writes steering committee chair Daniel Heagerty in the Foreword. "It defines who we are and what we represent as a state." I can think of no better context for conserving biodiversity than to make this goal explicit. In fact, I plan to require Oregon's Living Landscape as a text for the senior-level Environmental Problem-Solving Seminar that I will teach this spring at Linfield College.

My only criticisms are: 1) the poor quality of the binding: the back cover had separated from the body before I got the book home; and 2) the awkward placement of the poster: it is impossible to view as attached to the book and difficult to remove from the book without tearing.

Kareen B. Sturgeon,
Cheahmill Chapter

NPSO Items for Sale

Oregon's Rare Wildflower Poster depicts Punchbowl Falls and three of the Columbia River Gorge's endemic wildflowers. Text on the back describes the natural history of the Gorge and the mission of the NPSO. Available from Stu Garrett, 21663 Paloma Dr., Bend, OR 97701 (541) 389-6981. Individuals may order posters at \$12 each, plus \$3 per order for shipping. Posters are mailed in tubes. Chapter treasurers may contact Stu for wholesale prices to chapters.

NPSO Window Stickers are decals with NPSO's trillium logo in green over an opaque white background, for use inside car windows. Available from Stu Garrett, \$1, minimum order five.

NPSO's Original Wildflower Poster depicts 13 Oregon wildflowers in a striking artist's rendition. Soon to be a collector's item. Available from Stephanie Schulz, 84603 Bristow Rd., Pleasant Hill, OR 97455, \$5 each, plus \$3 per order for shipping. Posters are mailed in tubes.

Conservation and Management of Native Plants and Fungi: Proceedings of an Oregon Conference on the Conservation and Management of Native Vascular Plants, Bryophytes, and Fungi. Edited by Thomas N. Kaye, Aaron Liston, Rhoda M. Love, Daniel L. Louma, Robert J. Meinke, and Mark V. Wilson, with a foreword by Reed F. Noss. Available from NPSO Conference Proceedings, 1803 Cedar St., La Grande, OR 97850. (541) 962-7749. \$20 plus \$5 for shipping for the first copy, \$2.50 for shipping, each additional copy.

Annual Meeting Speaker

As most Bulletin readers know, Emerald Chapter will be hosting the 1999 NPSO Annual Meeting July 30 to August 1 at the White Branch Camp in the Central Cascades. In previous issues we have given hints of the natural beauty, diversity and botanical richness of this area along the upper McKenzie River. This month we would like to introduce you to our banquet speaker, Bill Sullivan of Eugene.

Many of us know and use Bill's wonderful hiking books, "100 Hikes in the Central Oregon Cascades," "100 Hikes in Northwest Oregon," and "Exploring Oregon's Wild Areas," and have enjoyed his adventure journal, "Listening for Coyote." What you may not know is that Bill also spearheaded last year's successful drive to fund a new Eugene Public Library for which we in this city will always be deeply grateful.

I asked Bill what he has been working on lately and found that he has a new book, "Hiking Oregon's History," which will be published this spring. He told me: "For once I get to tell the strange stories behind Oregon's most interesting historic trails, including Lewis and Clark's route across Tillamook Head, Chief Joseph's trail through Hell's Canyon, and Sam Barlow's wagon road around Mt. Hood." Bill will be giving several public lectures about the book in Eugene, Portland and Salem in April. Contact him at sullivan@efn.org for dates and places.

Bill, a native Oregonian, has the perfect background for what he loves to do best: hike and write. He began to hike at age five and left high school at age 17 to work and study in a remote area of the California desert. He holds a BA from Cornell in English and MA in German from UO. He and his wife Janell Sorensen, a teacher, have bicycled and studied in Germany and built a log cabin on the Siletz River. They have two children, Karen, a student at the UO, and Ian a high school sophomore.

Bill's eagerly awaited next hiking book will be "100 Hikes in the Wallowas." This summer he hiked half the trails in those mountains, but, as he told me: "It's a big area, and to do it properly I figure I'll need three years."

Come to the Annual Meeting and hear this fascinating individual talk about his adventures on Oregon's trails. Registration forms will be in your April Bulletin.

Rhoda Love, Emerald Chapter

Winter Twig Guide Available Again!

Now, while our deciduous trees are leafless you may be wishing for a guide to help you identify those exposed twigs. If you have been hoping to acquire the out-of-print book "Winter Twigs," by Helen Gilkey & Pat Packard, OSU Press, 1962, you are in luck. The Press has permission from Dr. Packard, to reproduce the book via the docupress technology and offer it for sale in quantity to bookstores, classes, organizations, etc. The ISBN number is 87071-0850, OSU Press, Corvallis.

The book contains keys, descriptions, a glossary and very fine drawings of the twigs of approximately 80 species of NW deciduous plants. 50 copies should be available at the Lane Community College Bookstore by late January priced at about \$25.50. Books for Winter Term stay on the shelves through the end of February, so please plan to make your purchase by then. (An Emerald Chapter person may be willing to get a copy for you if you provide a check to cover cost, postage and packaging.)

Some of the plant names have changed since 1962. Rhoda Love hopes to be able to produce a list of name changes, based on information to date from the Oregon Flora Project at OSU. She will post a notice to NPSO-chat when her list is complete.

FOREST SERVICE URGED TO ACQUIRE SCENIC LANDS IN COLUMBIA GORGE

Two private properties have been offered for sale (at the appraised price) to the U.S. Forest Service/Columbia River Gorge National Scenic Area, the Allen property on the Washington side and the Johnson property in Oregon.

Allen: This 210-acre property lies at the top of Tracy Hill (2000 ft. elev.) and on the east side of Catherine Creek Valley, including a quarter-mile stretch of Catherine Creek itself. Over half the Allen property lies inside the designated Catherine Creek Natural Area. This property is the home of wild turkeys and the mountain lady-slipper (*Cypripedium montanum*), which blooms around June 1.

Johnson: This property (five parcels totaling 30 acres) lies adjacent to existing national forest and state parkland in the Rowena area. All 30 acres should be acquire to prevent loss of scenic landscapes. Please emphasize to the Forest Service that parcel 2300, for example, has especially high scenic and recreational value. The entire 6.77-acre parcel -- open grassland and pine-oak woodland -- lies in the view from popular Tom McCall Point. If the Forest Service fails to acquire parcel 2300, a house will eventually be built on it, resulting in a loss of scenic open space. Private development would mean that the public could not park along the side of Dell Road to enjoy wandering among the stands of blue camas and other wildflowers which adorn parcel 2300 in the spring.

Please ask the Forest Service to acquire all 30 acres of the Johnson property as well as the Allen property. **COMMENT DEADLINE IS FEBRUARY 8, 1999.** Write to Art Carroll, Columbia Gorge National Scenic Area, Hood River, OR 97031, to express your support for these acquisitions.

Russ Jolley, Portland Chapter

1999 ANNUAL MEETING INFORMATION RESOURCES AND DESCRIPTION OF WHITE BRANCH ACCOMMODATIONS

The folks at Emerald Chapter are very excited about our annual meeting and have prepared a variety of resources for you to learn about the high Cascades and our meeting site, Camp White Branch. To help you locate the succulent details, here is the schedule of our NPSO Bulletin articles:

Dec.(98) - Fire, Ice and Flowers (the Central Cascades); Jan.(99) - Community and Plant Highlights, Other Accommodations; Feb.(99) - White Branch Accommodations, William Sullivan (Keynote Speaker), Other Campgrounds; Mar.(99) - White Branch Meals and Events; Apr.(99) - Registration Forms, Field Trip Information/Selection.

(Sign up deadline is June 15th)

And brand new! A web page with pictures/notes of White Branch! Thanks to Clay Gautier, Gail Baker and Lisa Karst for setting this up.

<http://www.NPSOregon.org/annual/annualmt.htm>

People have been wondering if we're providing lodging and meals at Camp White Branch. YES! The Camp has plenty of lodging (& tenting & RV space) and they'll be providing three meals a day (served cafeteria style). We hope you'll all come and stay with us at the Camp. We printed the list of "Other Accommodations" early (Jan. bulletin) because the Upper McKenzie area is very popular in July and we were told that people who wanted to stay some place other than the Camp should make their reservations soon.

White Branch is a pleasant old Youth Camp, in the Willamette National Forest on the Old McKenzie Highway (242). It's at 2500 ft. elevation and approximately 1 hour east of Eugene, 1 hour west of Sisters. There's a dormitory (above the dining hall) which sleeps

54, and 6 cabins, which sleep 12 each. The beds are bunks with plastic covered mattresses. Tent and RV sites are available, for the same price/night (\$8) as the cabins/dormitory.

The cabins don't have restrooms, but the restroom-shower building is centrally located, and there's one restroom in the dormitory/dining hall. For extra fun, there's a swimming pool, volleyball courts, a large meadow for games, and many hiking trails through big old trees to beautiful waterfalls.

The Camp facilities are used heavily year-round and are simple, basic and wonderously inexpensive. Three meals and a bunk will cost you about \$20/day, \$40/weekend. You'll be able to select which night(s) and meal(s) you want on the registration form (April bulletin).

Nearby U.S Forest Service Campgrounds

(For exact location refer to Willamette National Forest Recreation Map)

Limberlost: No drinking water. 4 tent only and 10 tent/trailer sites. Vault toilets. Low use.

Alder Springs: No drinking water. 7 tent only sites. Hiking trails. Vault toilets. Low use.

Paradise: Drinking water. 64 tent/trailer sites. Hiking trails. Flush toilets. High use. Fee.

Scott Lake: No drinking water. 20 tent only sites. Hiking trails. Vault toilets. Medium use.

Olallie: Drinking water. 17 tent/trailer sites. Vault toilets. Medium use. Fee.

McKenzie Bridge: Drinking water. 20 tent/trailer sites. Vault toilets. Medium use. Fee.

Horse Creek: Drinking water. 20 tent/trailer sites. Vault toilets. Medium use. Fee.

Trail Bridge: Drinking water. 28 tent/trailer sites. Hiking trails. Flush toilets. Med use. Fee.

Marcia J. Cutler, Annual Meeting Chair

Book Review

Visit the Siskiyou this winter from your own easy chair. "Spirit of the Siskiyou -- the Journals of a Mountain Naturalist" was recently published by the Oregon State University Press. The mountain naturalist who wrote these journals is Mary Paetzel, long-time observer of the marvels of the Siskiyou. Lee Webb, Siskiyou National Forest biologist, and Jackie Elliott, with the Siskiyou Audubon Society, were instrumental in getting these wonderful journals published.

Some of you may have crossed paths with Mary; she's one who doesn't beat around the bush in speaking up for our natural world and sharing with us what's unique and wonderful about the Siskiyou. Mary is very knowledgeable and observant of plants, birds and invertebrates and is so eloquent in describing what she sees.

These journals were not written originally for publication but for Mary to remember these special times. Her art work complements her word pictures and it's a treat for us to share these experiences with her.

The first entry in this book is "Fairy Bells on the Winter Air. It's about a "never-to-be-repeated experience" when Mary watched ice crystals "falling in luminescent strands from the branches" and heard "their musical tintinnabulation like so many fairy chimes on the winter air." I wish I could observe nature as well as Mary describes it.

A number of bookstores around the state are carrying this book and you can also order it from the OSU bookstore, OSU Press, 101 Waldo Hall, Corvallis, OR 97131-6407 (www.osu.orst.edu/dept/press) . ISBN 0-87071-449-X, \$21.95.

Barbara Mumblo, Siskiyou Chapter

NPSO 1999 State Office Candidates

The Nominating Committee offers the following list of candidates for state offices. Election ballots will be included in the March Bulletin.

PRESIDENT

Bruce Newhouse was born in Oregon and fell in love with our native flora and fauna while growing up in the Portland suburbs and northern Oregon Cascades. He is a botanist, wetland scientist, and naturalist as a partner in Salix Associates. Since the early '90's he has been active in NPSO, serving stints as Emerald Chapter president, vice-president, and currently, co-chair of NPSO's R & E Committee. He is an at-large board member and the NPSO Statewide Atlas Coordinator for the Oregon Flora Project. Bruce is on the Atlas Committee, is a member of the Carex Working Group, and is a member of several local parks and storm water committees. This term he is an adjunct faculty member at the University of Oregon, co-teaching an urban habitat class in the Landscape Architecture department. If elected, Bruce pledges to try to stimulate interest and activism in NPSO, particularly in building educational resources and providing input to public decision-making. He believes that as concerned, local residents, we are the only stewards of our local ecosystems, and that we need to be more vocal and visible in that role.

VICE PRESIDENT

Michael McKeag, incumbent, is a member of the Portland Chapter. His involvement with NPSO grew out of his interest in gardening with native plants. After a few field trips and a season as field trip coordinator for the Portland Chapter, he was hooked. Now his garden languishes while Michael is off in the wilds studying plants in their native habitat. He hopes to participate in an NPSO galvanized with a sense of purpose that inspires others to join in. He would like to see NPSO become irresistible.

SECRETARY

Rhoda Love of Eugene has been an NPSO member since 1972. She is a past state president of our Society and currently is co-president (with Gail Baker) of the Emerald Chapter. Rhoda taught botany at Lane Community College for approximately 30 years. Now retired, she volunteers for the Oregon Flora Project in Corvallis and works on biographies of Northwest Plant Hunters.

TREASURER

Martha Apple is currently secretary of the Corvallis Chapter. She enjoys botanizing with NPSO, and would like to expand on her involvement with NPSO by becoming treasurer. She is interested in some of the very large native plants of Oregon - doing research is on the anatomy of needles from old-growth Douglas-fir trees. Martha is affiliated with the Department of Botany and Plant Pathology at OSU. She holds a Ph.D. in Botany from the University of Rhode Island, and master's and bachelor's degrees in Botany and Geography from the University of Montana.

DIRECTORS AT LARGE

Dave Dobak has been looking at flowers for at least 30 years, and has been a NPSO member since 1983. He has led field trips and given programs for the Portland and Mid-Columbia chapters. He was vice-president of the Portland Chapter in 1992, and a State director-at-large in 1995-1997, and has served as assistant to the Treasurer for the past four years, as Secretary pro-tem now and then, and as techno-flunky to three Bulletin editors and the Membership committee.

Esther McEvoy founded the Corvallis Chapter in 1982 and has served the state organization in several capacities. She was Legislative Committee chair for ten years and was instrumental in efforts to pass Oregon's endangered species act. Esther has served on the board in the past and has botanical experience working out of the Burns BLM office.

Veva Stansell of Siskiyou and South Coast Chapters has been a member of NPSO since the Ice Age (at least for a very long time). She is retired from the United States Forest Service, having worked as Botany Tech and District Botanist at Gold Beach Ranger District on the Siskiyou National Forest. She is active in volunteer projects for The Nature Conservancy, NPSO, USFS and others, as long as they are fun. She considers the Siskiyou Mountains to be her basic geographic range, though she can sometimes be found in disjunct locations.

Dan Luoma, Nominations Committee Chair, Corvallis Chapter, Veva Stansell, Siskiyou and South Coast Chapters, Dick Brainerd, Corvallis Chapter.

Leach Garden Events

The Leach Botanical Garden, 6704 SE 122nd Avenue, Portland, OR 97236, is presenting the following events:

Feb. 20, 9 A.M.-Noon. A class in mosses and liverworts. Microscopes provided. A garden tour is included, so dress accordingly. Class limit 15, members \$10, non-members \$15.

March 13, 9-11:30 A.M. A class in landscaping designed for homeowners. Class limit 15, members \$15, non-members \$20.

Pre-registration required for all classes. Call (503) 761-9503, to register.



Friends of the Oregon Flora Project

Volunteers of the Oregon Flora Project have been busy. Recent work includes developing an electronic plant Atlas prototype, recording herbarium specimen label data, and compiling portions of the *Oregon Vascular Plant Checklist*.

This fall, the Native Plant Society of Oregon is sponsoring the Friends of the Oregon Flora Project to help raise the funds necessary to produce a new *Flora of Oregon*. Currently, the Friends Committee is looking for the talents of a few enthusiastic folks to help us with grant writing, record keeping, and developing a dynamic fund raising strategy. We plan to initiate a campaign to reach new contributors, both individual and corporate, and secure funding for key staff positions. If you'd like to help, please contact me, Keli Kuykendall at 541.758.8409, kuykendk@peak.org, or write to me at our new Friends address.

Friends of the Oregon Flora Project
P.O. Box 402
Corvallis, OR 97339-0402

NATIVE PLANT SOCIETY OF OREGON MEMBERSHIP FORM

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DUES include monthly *Bulletin* and *Kalmiopsis* when published. Membership is for calendar year. January to December.

() New () Renewal
 () Student\$12
 () Regular\$18
 () Family\$24
 () Sustaining\$50
 () Patron\$100
 () Life Membership\$500

Is this a change of address?

If so, please write your **old address** here:

() Subscription Only (*Bulletin* & *Kalmiopsis*)\$18
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Please make checks for dues and contributions payable to:

NATIVE PLANT SOCIETY OF OREGON

CONTRIBUTIONS to NPSO are tax deductible.

Jean Davis Memorial Scholarship Fund \$ _____
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 Fund \$ _____
 Rare and Endangered Plant Fund \$ _____

Membership is for the calendar year.

New memberships enrolled after September 1 include the following year.

Send completed form and full remittance to:

Jan Dobak, NPSO Membership Chair, 2584 NW Savier St., Portland, OR 97210-2412

Membership in the Native Plant Society of Oregon is open to all.

Membership applications, renewals and change of address (include old address) should be sent to the Membership Chair

STATE OFFICERS

DIRECTORS (to 6/99).....Bruce Barnes, Bruce Newhouse, Kareen Sturgeon
 DIRECTORS (to 6/00).....Kathleen Cheap, Ben Fawver, Steven Jessup
 PRESIDENT.....Position vacant
 IMMEDIATE PAST PRESIDENT.....Michael Igo PO Box 603, Mosier, OR 97040-0603
 VICE PRESIDENT.....Michael McKeag 7461 SW 184th Pl., Aloha, OR 97007-5740; (503) 642-3965
 SECRETARY.....Heather Laub.....P.O. Box 225, Mt. Hood Parkdate, OR 97041; (541) 352-7679
 TREASURER.....Jean France..... 5877 SW Kennycroft Way, Lake Oswego, 97035-7023; (503) 639-0741

CHAPTER PRESIDENTS

BLUE MOUNTAIN (Pendleton) Jerry Baker 58840 Bar M Lane, Adams, OR 97810-3003; (541) 566-3381
 CHEAHMILL Kareen Sturgeon 1135 Winterwood Loop, McMinnville, OR 97128; (503) 472-0866
 CORVALLIS Steve Northway 24073 Decker Rd., Corvallis, OR 97333-9510; (541) 929-5375
 EMERALD (Eugene).....Gail Baker & Rhoda Love 3927 Shasta View St., Eugene, OR 97405-4442; (541) 344-8377
 HIGH DESERT (Bend).....Stu Garrett 1501 NE Medical Center Dr., Bend, OR 97701; (541) 389-6981
 KLAMATH BASIN.....David Lebo..... 560 Flowers Lane, Klamath Falls, OR 97601; (541) 883-8393
 MID-COLUMBIABarbara Robinson P.O. Box 682, Mosier, OR 97040; (541) 296-5334
 NORTH COAST.....Christine Stanley..... P.O. Box 201, Cannon Beach, OR 97110-0201; (503) 436-0161
 PORTLANDShane Latimer 1605 SE 36th Ave., #3, Portland, OR 97214-5123; (503) 232-7405
 SISKIYOUJennifer Beigel & John Roth..... P.O. Box 1846, Cave Junction, OR 97523-1846; (541) 592-2831
 SOUTH COASTTim Rodenkirk 611 N. 12th St., Coos Bay, OR 97420; (541) 269-4696
 UMPQUA VALLEY (Roseburg)Sandra Stiltner 1963 Lookingglass Rd., Roseburg, OR 97470-9100; (541) 672-5903
 WILLAMETTE VALLEY (Salem)Walt Yungen 2020 Center St. NE, Apt. 32, Salem, OR 97301; (503) 581-9511
 WM CUSICK (La Grande).....Barbara Russell..... 1803 Cedar St., La Grande, OR 97850; (541) 962-7749

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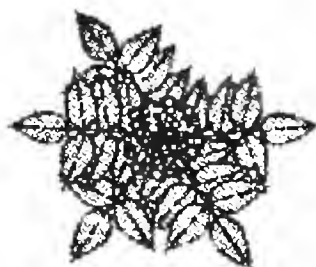
EDUCATION.....Jerry Igo P.O. Box 603, Mosier, OR 97040
 RARE AND ENDANGERED.....Bruce H. Rittenhouse. 550 Fillmore, Coos Bay, 97420-2811; w:756-0100;h:(541) 888-9328
 CONSERVATION, EAST SIDE.....Stu Garrett..... 1501 NE Medical Center Dr, Bend 97701; (541) 389-6981
 CONSERVATION, WEST SIDE.....Steven L. Jessup 208 Harrison St., Ashland, OR 97520-2920; (541) 552-6804
 LEGISLATIVE.....Steve Hinton 623 NE Brazee St., Portland 97212; (503) 281-4124
 MEMBERSHIPJan Dobak 2584 NW Savier St, Portland 97210-2412; (503) 248-9242
 BUDGETS AND GRANTSDan Luoma 3740 NW Harrison, Corvallis 97330; (541) 752-8860

PUBLICATIONS

BULLETIN EDITORJohn Robotham 117 NW Trinity Pl. Apt. 28, Portland 97209; (503) 226-6371
 KALMIOPSIS EDITORLinda Ann Vorobik RR 1 Box 1964, Lopez Island, WA 98261-9528; (360) 468-3188
 WEBMASTER.....Lisa Karst..... 8730 SW Washington Dr., Portland, 97223-6866, (503) 977-9818

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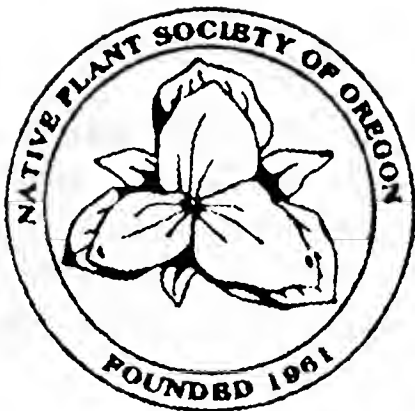
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or correspond directly with the Officers and Committee Chairs listed on the inside back page.

Membership Inquiries Only: Jan Dobak, 2584 NW Savier St., Portland, OR 97210-2412



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of Oregon's native vegetation

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Has Your Membership Expired?

If there is a "98" at the top of your address label, this is the last Bulletin you will receive – until you send your membership renewal for 1999.

Membership Directory to be Published

The 1999 edition of the NPSO Membership Directory will be published in April. If you wish to receive a copy, add two dollars to your renewal payment.

If you wish to have your address or telephone number, or both, withheld from publication in the Directory, please make a prominent note on your renewal form.

State News

July 30 – Aug. 1 **Annual Meeting:** The Emerald Chapter is hosting the 1999 annual meeting in the high country of McKenzie Pass. Registration material will be in the April Bulletin. For pictures/notes of meeting site, check our new web site: <http://www.NPSOOregon.org/annual/annualmt.htm>

April 17, Sat. **Board Meeting:** 10 A.M. – 4 P.M. Brooks Room, Deschutes County Library, 601 NW Wall St., Bend, Oregon. Directions: The Library is the new, large building on the west side of Wall St., just south of the main downtown part of Bend. The meeting room is immediately to the left as you enter the front door.

Chapter News

Blue Mountain

March 1, Mon. **Meeting:** 7 P.M. Small Business Development Center, SE 1st & Dorian, Pendleton. Jim McIver, an entomologist from La Grande, will present "Ants Put It Up With Honey Too: Food Storage and Ants," which focuses on ants dependent on *Artemisia tridentata*.

Cheahmill

- March 18, Thur **Meeting:** 7 P.M. Carnegie Room, McMinnville Public Library, 225 NW Adams, McMinnville. Scott Sundberg, Research Associate in Botany at Oregon State University, will talk about his work producing a plant identification manual for Oregon, and how NPSO chapters can help. (Business mtng. 7 P.M., program 7:30) PLEASE NOTE: THIS MTNG. IS ON THE 18TH, NOT THE 25TH AS ANNOUNCED IN THE FEB. BULLETIN.

Corvallis

- March 8, Mon. **Meeting:** 7:30 P.M. Avery House, Avery Park, Corvallis. Rebecca Goggans will inform us of the Oregon Dept. of Fish and Wildlife's new program she is developing on conservation and restoration of the Willamette Valley Garry oak savanna. This much-diminished oak savanna is belatedly recognized as a highly threatened ecosystem vital to many non-game animals as well as plant endemics in western Oregon. Further participatory discussion on the issue will follow. For more information, call Steve Northway, (541) 929-5375. SEE MORE NEWS ON P. 40.
- March 20, Sat. **Field Trip:** We will usher in the spring equinox with an outing to McDowell Cr. County Park to see the early blooming fetid adder's-tongue (*Scoliopus hallii*). Meet: 9 A.M., OSU parking lot, across from Monroe St. Beanery. Bring lunch. For more information, call Steve Northway, (541) 929-5375.
- March 27, Sat. **Field Trip:** 9 A.M. To be announced at the March 8th meeting.

Emerald

- March 15, Mon. **Meeting:** 7:30 P.M. Room 109, Science Building, main campus, Lane Community College, Eugene. Loren Russell, Corvallis Chapter member of NPSO, who is very knowledgeable about the mountain plants of WA, OR and n. CAL., will talk on "Alpines in Oregon," another great preparation for the annual meeting. He'll compare the alpine vegetation of the central, high Cascades, the Wallowas and Steens Mtn., emphasizing the species richness, habitat diversity and geographical affinities of the mountains. Directions: From 30th Ave., turn south on Eldon-Schafer Dr., go past Oak Hill School and park in LCC's south parking lot, east end. Walk downstairs to Science Building. NOTE: CHANGE FROM 4TH MONDAY TO 3RD MONDAY, THIS MONTH ONLY.

High Desert

- March 23, Tues. **Meeting:** 7: P.M. Central Oregon Environmental Center, 16 NW Kansas, Bend. Dr. Lucille Housley, Botanist/Ecologist, BLM, Lakeview District, presents "Another Reality; the plant world of indigenous people in the Intermountain West." She'll show slides and discuss plants used for food and fiber, and demonstrate taxonomic keys she's developed for identifying plants of use.
- April 27, Tues. **Meeting:** 7 P.M. Central Oregon Environmental Center, 16 NW Kansas, Bend. Dr. Greg Reigal, Area Ecologist, US Forest Service, presents "The Area Ecology

Problem: Ongoing Research on National Forest Lands of Central and South-Central Oregon.” Among other things, he will discuss recent research in ponderosa pine ecosystems, especially fire ecology, fire history and fire management.

Klamath Basin

March 9, Tues. **Meeting:** 7 P.M. Room 219, Owens Hall, OIT campus, Klamath Falls. Guest speaker will be Wayne Rolle, forest botanist in the Rogue River National Forest. Wayne will give a slide presentation on wildflowers along the Wimer Rd. route, including southern Josephine and Curry counties, Oregon, Del Norte County, Cal., W. Fork Illinois River and N. Fork Smith River drainages, serpentine flora, and the remote back country. Please join us. For more information, call David Lebo, 883-8393.

Mid-Columbia

March 3, Wed. **Meeting:** 7:30 P.M. Discovery Center Theatre, The Dalles. John Kallas will present a program titled “Sea Vegetables of the Pacific Coast.” Not all of the sea’s edible riches have fins or shells. Join us to learn more.

April 4, Sun. **Field Trip:** Enjoy a short (2-3 hr.) hike in the beautiful Catherine Creek area of the Gorge, designed to acquaint or reacquaint people with the Gorge spring wildflowers. Offered in conjunction with the Columbia Gorge Discovery Center. **Registration required!** To register, call David Weiss (Forest Service), 541-296-8600, ext. 213. Leader: Barbara Robinson, 296-5334. Meet: 10 A.M., Discovery Center, The Dalles, exit 82 off I-84.

April 7, Wed. **Meeting:** 7:30 P.M. Discovery Center Theatre, The Dalles. Imagine a beautiful, dove-gray, delicately veined and crenellated lichen that grows on rocks under water. This is *Hydrotheria venosa*, a rare Pacific Northwest endemic. Chiska Derr, expert lichenologist and US Forest Service botanist, will share information she has gleaned from her study of this unusual species.

April 11, Sun. **Plant Show:** Our annual plant show, with a large display of plants from all over the Gorge and nearby areas. Same day as the Fireman’s Smorgasbord. Don’t miss either. 10 A.M. – 4 P.M., Mosier School, exit 69 off I-84.

April 18, Sun. **Field Trip:** Hike through oak woodland to the top of a small (450 ft.) wildflower covered hill in the Memaloose Overlook area of the Gorge, for a panoramic view. About 3 hrs. Offered in conjunction with Columbia Gorge Discovery Center. **Registration required.** To register, call David Weiss (Forest Service), 541-296-8600, ext. 213. Leader: Barbara Robinson. Meet: 10 A.M., at the Discovery Center, The Dalles, exit 82, off I-84.

North Coast

For information on the North Coast Chapter, call Christine Stanley, 503 436-0161.

Portland

- March 7, Sun. **Field Trip:** Catherine Creek. Always a great way to start the flower season, as Sara Barnum and I will show you *Sisyrinchium douglasii*, *Fritillaria pudica* and many other spring bloomers. Easy hike. Leave 8:30 A.M., Gateway/99th Ave. Park & Ride, southeast corner of parking lot. Take exit 7, from I-84, turn immediately right onto NE 99th Ave. Second mtng. Place: 10 A.M., Bingen Winery parking lot on S.R. 14. Call Greg Stone, 652-1531, for more information.
- March 9, Tues. **Meeting:** 7 P.M. First United Methodist Church, 1838 Jefferson St., Portland. Dr. John Kalus of Wild Food Adventures is a botanist, nature photographer, writer, researcher and teacher who has led expeditions on wild foods for over 19 years. He will present an "Introduction to Wild Foods."
- March 14, Sun. **Field Trip:** Three Bench Loop. Join trip leader Russ Jolley for a trip up the Gorge to see *Lomatium columbianum*, *L. grayi*, *Cardamine pulcherrima*, *crocidium* sp., *Plagiobothrys* sp. And balsamroot. Steep climb at start (200 ft.) for some great views. Leave 8:30 A.M., Gateway/99th Ave. Park & Ride. Trailhead located on S.R. 14 at mile post 79, at the far end of Doug's Beach parking area, 10 A.M. For more information, call Greg Stone, 652-1531.
- April 11, Sun. **Field Trip:** Mosier wildflower show at Mosier School. For more information, call Greg Stone, 652-1531, and see Mid-Columbia Chapter.

Siskiyou

- March 6, Sat. **Field Trip:** Rough and Ready. Leader: John Roth. See rare plants such as Waldo rockcress and Siskiyou Mountains pennycress and a profusion of other wildflowers. Rough and Ready is an extremely rich botanical area that is gravely imperiled by a mining operation. Meet: 11 A.M., Illinois Valley Visitor's Center, 201 Caves Highway, Cave Junction. Call John, 541-592-2100, for more information.
- March 18, Thur. **Meeting:** 7:30 P.M. Room 171, Science Building, SOU, Ashland. Darren Borgias, Southwestern Oregon Stewardship Ecologist with The Nature Conservancy, will present a multi-media discussion on the successful use of prescribed fire in restoring rare plant habitat on the mounded prairie of the Agate Desert and in a Jeffrey pine savanna and a *Darlingtonia* fen in the serpentine Siskiyou.
- March 28, Sun. **Field Trip:** How trees prevent erosion. Leader: Rich Nawa. For more information, call Rich, 541-592-4459.
- April 3, Sat. **Field Trip:** Limpy Creek. Leader: Maria Ulloa. A beautiful example of both serpentine wetlands and drylands that is very close to Grants Pass. Meet: 10 A.M., US Forest Service office in Grants Pass, 200 NE Greenfield Rd. (just north of exit 58 on I-5). For more information, call Maria, 541-471-6528.
- April 10, Sat. **Field Trip:** Rough and Ready again. Leaders: Mike Anderson and Don Heinze. Observe the intraseasonal succession (changes in the numbers, development and species of flowers) in a single spring month at this threatened botanical gem. Meet: 9 A.M., Illinois Valley Visitor's Center (see March 6). For more information, call

Don, 541-955-7247.

April 11, Sun. **Field Trip:** In search of steelhead. Leader: Rich Nawa. For more information, call Rich, 541-592-4459.

South Coast

March 20, Sat. **Field Trip:** We will explore the world of coastal lichens at either Cape Arago or Eel Creek (near Lakeside), depending on the weather. Meet: BLM parking lot, 1300 Airport Lane, North Bend, 8 A.M. Trip will last until about noon. Bring rain gear, hand lens if possible, and lunch (optional). For more information, call Andrea Pipp or Tim Rodenkirk at 541-756-0100.

Umpqua Valley

March 11, Thur. **Meeting:** 7 P.M. Room 310, Douglas County Courthouse, Roseburg. Barbara Wilson, a botanist, will present a program on *Carex* (sedges).

Willamette Valley

March 15, Mon. **Meeting:** 7 P.M. Room 225, United Methodist Church, 600 State St. NE, Salem. Morris Johnson will give a talk and show slides of microscopic parts of plants, in a program called "Plants, very close-up and personal; a microscopic view."

William Cusick

March 16, Tues. **Meeting:** 7 P.M., Forest and Range Laboratory, C Ave. & Gekeler Lane, La Grande. Larry Larson, Professor of Rangeland Resources, OSU, will explain the use of grasses to control diffuse knapweed infestations. We've discussed this topic informally at many meetings. Here's a chance to see research data on the knapweed problem.

IMPORTANT NOTE TO FIELD TRIP PARTICIPANTS

Field trips take place rain or shine, so proper dress and footwear are essential. Trips may be strenuous and/or hazardous. Participation is at your own risk. Please contact the trip leader or chapter representative about difficulty, distance, and terrain to be expected on field trips. Bring water and lunch. All NPSO field trips are open to the public at no charge (other than contribution to carpool driver) and newcomers and visitors are always welcome.

NOTICE TO FIELD TRIP CHAIRS AND LEADERS

The Forest Service and other agencies have set policies limiting group size in many wilderness areas to 12. The reason is to limit human impacts on these fragile areas. Each group using wilderness areas should be no larger than 12.

POSTAL NOTICE

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Opinions expressed in this publication are those of the authors of the articles.
They do not represent the opinions of the Native Plant Society of Oregon, unless so stated.

NPSO Board Meeting Highlights – January 1999

The NPSO Board met January 23 at Avery House in Corvallis. Thanks to the Corvallis Chapter for hosting the meeting. Esther McEvoy read a personal remembrance of Karl Urban, who died in January.

Treasurer's report: The ending balance for 1998 was higher than budgeted because of a modest increase in membership dues, and the fact that Kalmiopsis was not published. Principal sources of income were membership dues and contributions (\$20,630) and Environmental Federation of Oregon (\$10,159). Principal expenses were chapter share of dues (\$6,162), Bulletin (\$7,329), partial support of three ODA Interns (\$4,500), and grants (\$8,815), including \$3,000 to the Oregon Flora Project .

Budget committee report: Dan Luoma reviewed the proposed budget, which is substantially the same as 1998 actual results, but includes allowance for two issues of Kalmiopsis. The Board decided to increase funding for the Oregon Flora Project to \$6,000. Friends of the Oregon Flora: Keli Kuykendall asked for, and the Board approved, one more year of sponsorship as a NPSO committee before becoming independent. The Friends Committee has been successful in soliciting individual contributions, and will next be trying to get some grants. In addition to Keli Kuykendall as Chair, Rhoda Love and Esther McEvoy are committee members. Several additional NPSO members have expressed interest in joining the committee, and more would be welcome.

Membership committee report: the membership count is now 1,012. Shane Latimer will continue to serve on the Environmental Federation of Oregon board of directors. There

were a lot of volunteer hours put in by NPSO last year, but the current year is still below quota. We need 100 hours per year to support our commitment to EFO, which provides most of the funds NPSO uses for grants.

The Board approved nominations of Wilbur Bluhm and Ken Chambers as Fellows of NPSO. Sales of the Proceedings from the 1995 rare plant symposium have been declining. The board voted to reduce the price to \$5 plus shipping to encourage sales of the remaining copies.

Dave Dobak

Scholarship Offered

The Jean Davis Memorial Fund is again offering a scholarship for the 1999-2000 school year, in the amount of \$1000.00.

This will be given to a full time student enrolled in plant systemics or plant ecology in the state of Oregon.

We are looking for undergraduates who have completed two years of college work.

To receive more information and an application, which must be submitted by May 30th, please call or write to:

Harriet Schoppert

11265 Phantom Lane SE

Stayton, OR 97383-9606

503-859-2613

NPSO Items for Sale

Oregon's Rare Wildflower Poster depicts Punchbowl Falls and three of the Columbia River Gorge's endemic wildflowers. Text on the back describes the natural history of the Gorge and the mission of the NPSO. Available from Stu Garrett, 21663 Paloma Dr., Bend, OR 97701 (541) 389-6981. Individual may order posters at \$12 each, plus \$3 per order for shipping. Posters are mailed in tubes. Chapter treasures may contact Stu for wholesale prices to chapters.

NPSO Window Stickers are decals with NPSO's trillium logo in green over an opaque white background, for use inside car windows. Available from Stu Garrett, \$1, minimum order five.

NPSO's Original Wildflower Poster depicts 13 Oregon wildflowers in a striking artist's rendition. Soon to be a collector's item. Available from Stephanie Schulz, 84603 Bristow Rd., Pleasant Hill, OR 97455, \$5 each, plus \$3 per order for shipping. Posters are mailed in tubes.

Conservation and Management of Native Plants and Fungi: Proceedings of an Oregon Conference on the Conservation and Management of Native Vascular Plants, Bryophytes, and Fungi. Edited by Thomas N. Kaye, Aaron Liston, Rhoda M. Love, Daniel L. Louma, Robert J. Meinke, and Mark V. Wilson, with a foreword by Reed F. Noss. Available from NPSO Conference Proceedings, 804 Jefferson Ave., La Grande, OR 97850. (541) 962-7749. \$20 plus \$5 for shipping for the first copy, \$2.50 for shipping, each additional copy.

Oregon Garden Prepares for Opening – Seeks Members

Late spring or early summer, year 2000, will see the opening of the Oregon Garden. Construction and planting of phase 1 is well under way in preparation for the Garden's opening.

The idea of an Oregon Garden originated within the Oregon Association of Nurserymen (OAN), and the OAN provided the impetus to get it going. The nursery industry has invested heavily in it. Additional, and significant, funding has also come from a number of other sources, including grants from Federal government and State of Oregon Economic Division, private foundations, individuals, and business. Some 10 million dollars have been contributed so far. It is expected to cost double that amount to complete the Oregon Garden.

The Oregon Garden is on south edge of city of Silverton. This site became known while several other sites were under investigation. The city of Silverton, in need to provide more sophisticated treatment of its effluent, contacted the OAN. The city offered the land and water for the garden, if the Oregon Garden located there. Now the two had mutual interests and potential benefits. The decision was easy.

The land provides an excellent site with its gentle slopes, rolling terrain, native oak and conifer woods, extensive open areas, and great vistas. An abundant supply of water affords many opportunities. The developed plan calls for outstanding water features not commonly found in, or available to, most public gardens. The Garden's symbol is the "Signature Oak," one of the largest known specimens of Oregon white oak, *Quercus garryana*. It is featured in the Garden's design. Native plants will become prominent as the Garden is fully developed.

It became apparent the Oregon Garden needed to have its own governing organization, and the

Oregon Garden Foundation was established. There now are 12 Oregon nursery growers on the Foundation board, plus 12 people who have no connection to the nursery industry. Two non-nursery people are ex-officio, and the 3-member Senior Advisory Council has one nurseryman and two others not industry affiliated. While the nursery industry maintains great interest in the Garden, the Oregon Garden Foundation has no official tie to the industry.

The Oregon Garden Foundation is very desirous of broadening its membership, as many gardens before it have found to be a necessity for a successful public garden. It is now appealing to a wider plant community, including those with interests in natives, to become members of the Oregon Garden Foundation, providing support for the Garden as members.

Completion of phase I will showcase attractive, well designed gardens with plants, structures, and water. Most of the plants will be ornamental, but some native plants will be used in landscape settings. Phases II and III will ultimately see completion of the Garden and provide many additional plant and design opportunities.

Those of us with a special interest in natives will find they, too, are included in phases II and III, some earlier. The conifer woods is to remain as a native woods. The oak woods, now populated with non-native grasses and other species, will become a native oak woods with later Garden development. A moss garden is on the master plan; this is a garden of mostly, if not all, native mosses. A full native plant garden is planned for phase II or III, providing an opportunity for people to see many Oregon native plants. More information is available from the Oregon Garden Foundation, P.O. Box 155, Silverton, OR 97381, or by calling 503-874-8100.

Wilbur L. Bluhm, Willamette Valley Chapter

NPSO/ODA Conservation Biology Internships

During the 1999 field season, the Oregon Department of Agriculture (ODA) and the Native Plant Society of Oregon (NPSO) will once again sponsor internships in plant conservation biology. This program, in effect since 1990, is intended to provide an initial research experience to individuals considering conservation biology as a career choice. It is especially appropriate for students who have recently completed or will soon finish their undergraduate degree and desire field experience before attending graduate school. Open to anyone (except previous interns), priority will be given to life science (especially botany or biology) undergraduates, recent graduates, or individuals seriously thinking of a change in career orientation towards conservation. Applicants must be available in early May (preference will be given to applicants who can start by May 3, 1999).

We are currently recruiting for three full-time summer interns to assist with our program's ongoing field projects. Interns contribute field and/or laboratory assistance to ODA/OSU scientists working on several subjects during the summer. The internships will run 16-weeks from early May through August, and will be involved with a diversity of projects dealing with plant demography, population monitoring, habitat management, species re-introduction, and plant breeding system studies.

Interns receive a summer stipend of \$2500 in addition to a trip reimbursement of \$20-\$45 per night for food and lodging. Extensive field work (often including overnight car-camping or motels) will be required, so applicants should be in good physical condition. All activities will be coordinated out of Oregon State University in Corvallis, requiring interns to live in the mid-Willamette Valley area. Also,

interns will be expected to contribute an article to the NPSO Bulletin summarizing some aspect of their summer work.

The deadline for internship applications is March 24, 1999. To apply, send a letter of interest, resume, college transcripts (unofficial copies are fine), and a writing sample (such as a recent term-paper or essay), and names and phone numbers of two references to the address below. Be sure to state when you would be available to start work (this MUST). Finalists may be interviewed in Corvallis or Salem, Oregon, or by phone. If you have any questions, please contact:

Tom Kaye, Department of Botany and Plant Pathology, Oregon State University, 2082 Cordley Hall, Corvallis, OR 97331-2902, (541) 737-234, e-mail: kayet@bcc.orst.edu

1999 ANNUAL MEETING NEWS, EVENTS AND MENU

The beautiful upper McKenzie needs no further adornments to beckon a nature-loving spirit, but in case you'd like to be further enticed to the 1999 Annual Meeting, here's some things you'll be able to do at White Branch Youth Camp.

FRI. SOCIAL - take a late afternoon walk with Charlene Simpson, Emerald Chapter charter member and good friend Veva Stansell from Pistol River, hear musical botany, watch a great slide show, eat.

SAT. BANQUET – help honor old and new officers and board and new fellows, hear Bill Sullivan's adventures in the Cascades, eat.

SPONTANEOUS - hike in old growth to sparkling waterfalls, play in an open meadow, swim in a big pool (late afternoons), view the exotic Monroe maple, cavort under the almost full moon.

AND here's what we're planning for your gustatory delight. (Subject to the usual disclaimers of availability and new inspirations of Emerald Chapter and/or White Branch cooks)

BREAKFAST: Pancakes & sausages on Sat. and scrambled eggs on Sun., with hot oatmeal, cold cereal, a fruit and orange juice available both days.

LUNCH: Make-your-own-sack-lunch both days(at breakfast) from a selection of lunch meats, cheeses, vegetables, an apple, pkg. Potato chips, cookies and pop/orange juice..

FRI. DINNER Substantial cold meal of sliced lunch meats, cheese, salad, vegetables, fruits and brownies.

SAT. BANQUET: Spinach lasagna(w/,w/o meat), salad, French bread, cooked vegetable, peach cobbler.

Coffee and hot water for teas(both caffeinated and herbal varieties) are always available in the dining room, along with a microwave and refrigerator. Milk will be served at breakfast and dinner meals.

χ. *****
PLUS an alert/request to NPSO botany, ecology, biology, etc. college teachers/students – the annual meeting this year will be around \$50 for food and lodging for the whole weekend, thus eminently affordable. We think this could be a great opportunity to introduce budding botanists to the many joys of NPSO, and thus possibly gain valuable new members for our great Society. So, please consider putting the word out to your classes and encouraging them to come to the Annual Meeting and also to join NPSO. Contact us if you need more info, a copy of our flyer, etc. Registration forms will be in the April Bulletin, feel free to make copies for people who haven't yet joined NPSO

Marcia Cutler, Annual Meeting Chair,
mar_c@efn.org, (541)687-2559

Research and Conservation Grants

The Corvallis Chapter is offering one or more grants from \$300 to \$500. They are offered in support of research in, conservation of, and education about the native flora of Oregon. Short grant requests should be limited to two pages, and should include:

- a. Purpose of research and anticipated benefit to Oregon native plants.
- b. Methods and/or monitoring
- c. Itemized budget

Recipients will describe the outcomes of their projects at either a chapter meeting, a poster presentation, or in the NPSO Bulletin. Send applications to Dick Brainerd, Corvallis Chapter Treasurer, 1377 NW Alta Vista Dr., Corvallis, OR 97330. Submissions should be received by March 31, 1999.

Upland Savanna Studies

The Corvallis Chapter is working on upland savanna studies and restorations. We hope to locate any remaining Willamette Valley populations of *Viola nuttallii* var. *praemorsa*. Anyone who knows of such populations or who wishes to assist in exploratory surveys should contact Steve Northway at 541-929-5375.

CORVALLIS CHAPTER OFFICERS

The Chapter seeks nominations for officers. Nominations will be taken at the March meeting. A new position of chapter conservation chair is open and in need of being filled..



Friends of the Oregon Flora Project

Volunteers of the Oregon Flora Project have been busy. Recent work includes developing an electronic plant Atlas prototype, recording herbarium specimen label data, and compiling portions of the *Oregon Vascular Plant Checklist*.

This fall, the Native Plant Society of Oregon is sponsoring the Friends of the Oregon Flora Project to help raise the funds necessary to produce a new *Flora of Oregon*. Currently, the Friends Committee is looking for the talents of a few enthusiastic folks to help us with grant writing, record keeping, and developing a dynamic fund raising strategy. We plan to initiate a campaign to reach new contributors, both individual and corporate, and secure funding for key staff positions. If you'd like to help, please contact me, Keli Kuykendall at 541.758.8409, kuykendk@peak.org, or write to me at our new Friends address.

Friends of the Oregon Flora Project
P.O. Box 402
Corvallis, OR 97339-0402

NATIVE PLANT SOCIETY OF OREGON MEMBERSHIP FORM

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DUES include monthly *Bulletin* and *Kalmiopsis* when published. Membership is for calendar year. January to December.

- () New () Renewal
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Is this a change of address?

If so, please write your old address here:

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 but do not want to have full membership status.*

CONTRIBUTIONS to NPSO are tax deductible.

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Please make checks for dues and contributions payable to:

NATIVE PLANT SOCIETY OF OREGON

Membership is for the calendar year.

New memberships enrolled after September 1 include the following year.

Send completed form and full remittance to:

Jan Dobak, NPSO Membership Chair, 2584 NW Savier St., Portland, OR 97210-2412

Membership in the Native Plant Society of Oregon is open to all.

Membership applications, renewals and change of address (include old address) should be sent to the Membership Chair

STATE OFFICERS

DIRECTORS (to 6/99) Bruce Barnes, Bruce Newhouse, Kareen Sturgeon
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 IMMEDIATE PAST PRESIDENT Michael Igo..... PO Box 603, Mosier, OR 97040-0603
 VICE PRESIDENT Michael McKeag..... 7461 SW 184th Pl., Aloha, OR 97007-5740; (503) 642-3965
 SECRETARY Heather Laub 6780 Highway 35, Mt. Hood, OR 97041-9725; (541) 352-6002
 TREASURER Jean France 5877 SW Kennycroft Way, Lake Oswego, 97035-7023; (503) 639-0741

CHAPTER PRESIDENTS

BLUE MOUNTAIN (Pendleton) Jerry Baker 58840 Bar M Lane, Adams, OR 97810-3003; (541) 566-3381
 CHEAHMILL Kareen B. Sturgeon 1135 Winterwood Loop, McMinnville, OR 97128; (503) 472-0866
 CORVALLIS Steve Northway..... 24073 Decker Rd., Corvallis 97333-9510; (541) 929-5375
 EMERALD (Eugene) Gail Baker & Rhoda Love 3927 Shasta View St., Eugene, OR 97405-4442; (541) 344-8377
 HIGH DESERT (Bend) Stu Garrett 1501 NE Medical Center Dr., Bend, OR 97701; (541) 389-6981
 KLAMATH BASIN David Lebo 560 Flowers Lane, Klamath Falls, OR 97601; (541) 883-8393
 MID-COLUMBIA Barbara Robinson..... P.O. Box 682, Mosier, OR 97040; (541) 296-5334
 NORTH COAST Christine Stanley P.O. Box 201, Cannon Beach, OR 97110-0201; (503) 436-0161
 PORTLAND Shane Latimer 1605 SE 36th Ave., #3, Portland, OR 97214-5123; (503) 232-7405
 SISKIYOU Jennifer Beigel & John Roth..... P.O. Box 1846, Cave Junction, OR 97523-1846; (541) 592-2831
 SOUTH COAST Tim Rodenkirk..... 611 N. 12th St., Coos Bay, OR 97420; (541) 269-4696
 UMPQUA VALLEY (Roseburg) Sandra Stiltner 1963 Lookingglass Rd., Roseburg, OR 97470-9100; (541) 672-5903
 WILLAMETTE VALLEY (Salem) Walt Yungen 2020 Center St. NE, Apt. 32, Salem, OR 97301; (503) 581-9511
 WM CUSICK (La Grande) Barbara Russell 1803 Cedar St., La Grande, OR 97850; (541) 962-7749

STATE COMMITTEE CHAIRS

EDUCATION Jerry Igo..... P.O. Box 603, Mosier, OR 97040
 RARE AND ENDANGERED Bruce H. Rittenhouse.. 550 Fillmore, Coos Bay, 97420-2811; w:756-0100;h:(541) 888-9328
 CONSERVATION, EAST SIDE Stu Garrett 1501 NE Medical Center Dr, Bend 97701; (541) 389-6981
 CONSERVATION, WEST SIDE Steven L. Jessup 208 Harrison St., Ashland, OR 97520-2920; (541) 552-6804
 LEGISLATIVE Steve Hinton 623 NE Brazee St., Portland 97212; (503) 281-4124
 MEMBERSHIP Jan Dobak 2584 NW Savier St, Portland 97210-2412; (503) 248-9242
 BUDGETS AND GRANTS Dan Luoma 3740 NW Harrison, Corvallis 97330; (541) 752-8860

PUBLICATIONS

BULLETIN EDITOR John Robotham 117 NW Trinity Pl, Apt. 28, Portland 97209; (503) 226-6371
 KALMIOPSIS EDITOR Linda Ann Vorobik RR 1 Box 1964, Lopez Island, WA 98261-9528; (360) 468-3188
 WEBMASTER Lisa Karst 8730 SW Washington Dr., Portland, 97223-6866. (503) 977-9818

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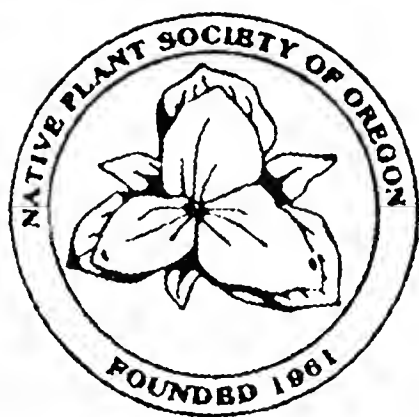
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NATIVE PLANT SOCIETY OF OREGON
World Wide Web: <http://www.NPSOregon.com>
General Business Address: P.O. Box 902, Eugene, OR 97440
or correspond directly with the Officers and Committee Chairs listed on the inside back page.
Membership Inquiries Only: Jan Dobak, 2584 NW Savier St., Portland, OR 97210-2412

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Bulletin of the Native Plant Society of Oregon

Dedicated to the enjoyment, conservation, and study
of Oregon's native vegetation

VOLUME 32

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State News

- July 30 – Aug. 1 **Annual Meeting:** The Emerald Chapter is hosting the 1999 annual meeting in the high country of McKenzie Pass. **Registration material is in this issue; registration deadline is June 15.** For pictures/notes of meeting site, check our new web site: <http://www.NPSOregon.org/annual/annualmt.htm>
- April 17, Sat. **Board Meeting:** 10 A.M. – 4 P.M. Brooks Room, Deschutes County Library, 601 NW Wall St., Bend, Oregon. Directions: The Library is the new, large building on the west side of Wall St., just south of the main downtown part of Bend. The meeting room is immediately to the left as you enter the front door.

Chapter News

Blue Mountain

- April 5, Mon. **Meeting:** 7 P.M. Small Business Development Center, SE 1st & Dorian, Pendleton. Karen Antell, botanist at EOSU in La Grande, will talk on vegetation at Ladd Marsh.
- April 24, Sat. **Field Trip:** Jerry Baker will lead a trip to see spring flowers. We will go up Cabbage Hill or up the Umatilla River, depending on what's blooming best, and also will include a stop at the native plant nursery on the Umatilla Indian Reservation. Meet: northeast corner, Pendleton Safeway parking lot, 8 A.M.

Cheahmill

- April 22, Thur. **Meeting:** 7 P.M. Carnegie Room, McMinnville Public Library, 225 NW Adams, McMinnville. Business meeting. 7:30 P.M. Loren Russell will present a slide show on Oregon's alpine plants, comparing the alpine vegetation of the high Cascades, the Wallowas and the Steens Mountains.
- May 27, Thur. **Meeting:** 7 P.M. Carnegie Room, McMinnville Public Library, 225 NW Adams, McMinnville. Business meeting. 7:30 P.M. "Basketry Traditions of Oregon Native Peoples." Ethnobotanist, Peg Mathewson, will present a slide show and

demonstration of basketmaking with native plants.

Corvallis

- April 12, Mon. **Meeting:** 7:30 P.M. Avery House, Avery Park, Corvallis. Tom Conley talks about landforms and ethnobotany in the pre-Columbian Willamette Valley.
- April 10, Sat. **Field Trip:** Exploring lichens of old-growth forests of Mary's Peak, *Lobaria oregana*, pin-lichens and more. Meet: 9 A.M., OSU parking lot, across from the Monroe St. Beanery. Bring lunch. Call Eric Peterson, 752-4292, for information.

Emerald (20th anniversary year)

- April 24, Sat. **Field Trip:** Spring botany trip to Mt. Pisgah. 9 A.M. to about 2 P.M. Will visit some of the lesser-traveled trails of the Howard Buford Recreation Area. The south slopes will be very showy; expect camas, shooting stars, buttercups, buckbrush and many other springtime treats. Meet: S. Eugene H.S. parking lot, SW corner of 19th and Patterson. Bring lunch and water. Led by Dave Predeek, 345-5531.
- April 26, Mon. **Meeting:** 7:30 P.M. Room 109, Science Building, main campus, Lane Community College. Keith McCree will talk about some of his favorite hiking and wildflower photograph spots in the Middle Fork district. He and his wife Barbro have produced a free CD-ROM with many photographs, trails and associated wildflower lists.
- May 15, Sat. **Field Trip:** Kathy Pendergrass, BLM botanist, will take us to look at establishing plant communities at wetland mitigation sites in the West Eugene wetlands. 8-12 A.M. Please call Kathy, 541-683-6477, for more information.
- May 15, Sat. **Wildflower Festival:** To help with set-up of Mt. Pisgah Arboretum Wildflower Festival, come to Arboretum (off Seavey Loop Rd.) starting at 8 A.M. Your help will greatly benefit the show. For information, call Gail Baker, 344-8377 or 747-4501x2085, or Dale McBride, 726-1932.
- May 16, Sun. **Wildflower Festival:** Set-up for MPA Wildflower Festival, at Arboretum (off Seavey Loop Rd.) starting at 7:30 A.M. Many tasks are needed to make the show come together, and your help will be much appreciated. For information, see above.
- May 16, Sun. **Wildflower Festival:** 10 A.M. – 4 P.M. Mt. Pisgah Arboretum Wildflower Festival. Celebrate the life and discoveries of David Douglas, in commemoration of the 200th anniversary of his birth, at this annual spring festival, centered around a grand display of wildflowers collected throughout Lane County. All flowers are identified and experts are on hand to identify flowers you bring. The display includes a wide variety of native species, a section on poisonous and medicinal plants and their uses and a selection of grasses, rushes and sedges. There will be guided nature walks, nature craft vendors, live music, children's activities and, new this year, a wildflower photo contest. The event is a cooperative effort of Mt. Pisgah Arboretum, the NPSO and botany students and staff of Lane Community College. Call 541-747-1817, or Dale McBride, 726-1932, for more information. \$2 individual, \$5 family.
- May 24, Mon. **Meeting:** 7:30 P.M. Room 109, Science Building, main campus, LCC. "The Long, Happy Life of Louis F. Henderson," is the subject of Rhoda Love's talk on one of

the Northwest's most remarkable plant collectors. Henderson saw mayhem and murder as a boy in Mississippi in the Civil War, went to Cornell, came west in 1874, and tirelessly botanized in OR, WA and ID until his death in 1942. For directions, see April meeting.

High Desert

April 27, Tues. **Meeting:** 7:30 P.M. Central Oregon Environmental Center, 16 NW Kansas, Bend. Dr. Greg Reigal, Area Ecologist, US Forest Service, presents "The Area Ecology Problem: Ongoing Research on National Forest Lands of Central and South-Central Oregon." Among other things, he will discuss recent research in ponderosa pine ecosystems, especially fire ecology, fire history and fire management.

Klamath Basin

April 13, Tues. **Meeting:** 7 P.M. Room 219, Owens Hall, OIT, Klamath Falls. Program to be announced. For more information, call David Lebo, 541-883-8393.

Mid-Columbia

April 4, Sun. **Field Trip:** Enjoy a short (2-3 hr.) hike in the beautiful Catherine Creek area of the Gorge, designed to acquaint or reacquaint people the Gorge's spring wildflowers. Offered in conjunction with the Columbia Gorge Discovery Center. **Registration required!** To register, call David Weiss (Forest Service), 541-296-8600, ext. 213. Leader: Barbara Robinson, 296-5334. Meet: 10 A.M., Discovery Center, The Dalles, exit 82 off I-84.

April 7 Wed. **Meeting:** 7:30 P.M. Discovery Center Theatre, The Dalles. Imagine a beautiful, dove-gray, delicately veined and crenellated lichen that grows on rocks under water. This is *Hydrotheria venosa*, a rare Pacific Northwest endemic. Chiska Derr, expert lichenologist and US Forest Service botanist, will share information she has gleaned from her study of this unusual species.

April 18, Sun. **Plant Show:** 10 a.m. – 4 p.m. Mosier School (exit 69 off I-84). Our annual plant show, with a large display of plants from all over the Gorge and nearby areas. Same day as the Fireman's Smorgasbord. Don't miss either. NOTE: THE DATE HAS BEEN CHANGED SINCE REPORT IN LAST MONTH'S BULLETIN.

April 18, Sun. **Field Trip:** Hike through oak woodland to the top of a small (450 ft.) wildflower covered hill in the Memaloose Overlook area of the Gorge, for a panoramic view. About 3 hrs. Offered in conjunction with Columbia Gorge Discovery Center. **Registration required!** To register, call David Weiss (Forest Service), 541-296-8600, ext. 213. Leader: Barbara Robinson. Meet: 10 A.M., Discovery Center, The Dalles, exit 82 off I-84.

May 2, Sun. **Field Trip:** Hike to McCall Point (1000 ft.) in the oak woodland area of the Gorge, at the peak bloom of the balsamroots, lupines and Indian paint brush, for a gorgeous view. Offered in conjunction with the Columbia Gorge Discovery Center. **Registration required!** To register, call David Weiss (Forest Service), 541-296-

8600. Leader: Barbara Robinson, 296-5334. Meet: 10 A.M., Discovery Center, The Dalles, exit 82 off I-84.

May 5, Wed. **Meeting:** 7:30 P.M. Discovery Center Theatre, The Dalles. Linda McMahan, Plants for Partners, tells us about their program to teach volunteers to survey and study endangered plants in up to a week of intensive study, with possible college credit.

May 22, Sat. **Field Trip:** Visit Jerry Igo's lovely acreage in the oak woodlands of the Gorge. See lady slipper orchids and many other flowers. Jerry will show us around. Trip is in conjunction with Corvallis Orchid Society. Meet across from the Mosier Store, exit 69 off I-84, 11 A.M.

North Coast

For information on the North Coast Chapter, call Christine Stanley, 503 436-0161.

Portland

April 4, Sun. **Field Trip:** Catherine Creek. Car pool from Gateway/99th Ave. Park & Ride, southeast corner of parking lot. Take exit 7 from I-84, turn immediately right onto 99th Ave. Leave: 8:30 A.M. Meet trip leader at trailhead. Joint trip with Mid-Columbia Chapter, which see for more information. **Pre-registration required.**

April 13, Tues. **Meeting:** 7 P.M. Room 355, First United Methodist Church, 1838 Jefferson St., Portland. Botanist and Forest Ecologist, Christine Ebrahimi, will speak about "A Love Affair With The Steens," after 12 years of studying the flora, from the grasslands to the alpine areas.

April 17, Sat. **Field Trip:** Cape Falcon. Along with great views of the ocean, see *Synthyris reniformis*, *Viola adunca*, maybe the early yellow violet, and many more on this moderate, 4 mi. R.T. hike. Car pool from Cedar Hills Shopping Center parking lot. (Westbound from Portland on Hwy. 26, take exit 69B, follow signs to Cedar Hills. Northbound on Hwy. 217, take exit to Hwy 26E/Cedar Hills, follow signs to Cedar Hills). Leave: 8:30 A.M. Remember to pack lunch, and rain gear, if weather looks doubtful. Meet trip leader, Christine Stanley, at trailhead, Oswald West State Park, first parking lot on the right, going south on 101 from Hwy. 26, at 10 A.M. For more information, call Christine, 503-436-0161.

April 18, Sun. **Field Trip:** Memaloose Overlook. Car pool from Gateway/99th Ave. Park & Ride. Leave: 8:30 A.M. **Pre-registration required.** Joint trip with Mid-Columbia Chapter, which see for information.

April 18, Sun. **Field Trip:** Mosier Wildflower Show. Car pool from Gateway 99th/Ave. Park & Ride. Leave: 8:30 A.M. No trip leader. See Mid-Columbia Chapter for information. NOTE: DATE CHANGED SINCE LAST MONTH'S REPORT.

May 2, Sun. **Field Trip:** McCall Point. Car pool from Gateway/99th Ave. Park & Ride. Leave: 8:30 A.M. **Pre-Registration required.** See Mid-Columbia Chapter for details.

Siskiyou

- April 3, Sat. **Field Trip:** Limpy Creek. Leader: Maria Ulloa: A beautiful example of both serpentine wetlands and drylands that is very close to Grants Pass. Meet: 10 A.M., US Forest Service office in Grants Pass, 200 NE Greenfield Rd. (just north of exit 58 on I-5). For more information, call Maria, 541-471-6528.
- April 10, Sat. **Field Trip:** Leader: Barbara Mumblo. Meet: 10 A.M., lower Table Rock trailhead. This is a joint trip with The Nature Conservancy. **Registration required!** Call 770-2349, to register.
- April 10, Sat. **Field Trip:** Rough and Ready again. Leaders: Mike Anderson and Don Heinze. Observe the intraseasonal succession (changes in numbers, development and species) in a single spring month at this botanical gem. Meet: Illinois Valley Visitor's Center, 201 Caves Hwy., Cave Junction, 9 A.M. For more information, call Don, 541-955-7247.
- April 11, Sun. **Field Trip:** In search of steelhead. Leader: Rich Nawa. For more information, call Rich at 541-592-4459.
- April 15, Thur. **Meeting:** 7:30 P.M. Room 171, Science Building, SOU, Ashland. Dr. Steve Jessup, Southern Oregon University, presents "High Elevation Endemism in *Draba*: In Situ Speciation, or Relicts of a Panwestern Periglacial Radiation." Also, Wayne Rolle of the Rogue River National Forest will give a brief presentation on the Mt. Ashland Ski Area Expansion.
- April 17, Sat. **Field Trip:** Star Flat. Leader: Don Heinze. A myriad of rare or once considered rare plants, such as California lady's slipper, California pitcher plant, large-flowered rush lily, Del Norte sweetpea, Waldo rockcress and Siskiyou Mountains pennycress, along with other not rare but nevertheless beautiful lilies and orchids in a fascinating serpentine fen. Meet: 9 A.M., south side of Selma Market parking lot in Selma. Call Don, 541-955-7247, for more information.
- April 18, Sun. **Field Trip:** In search of steelhead, Leader: Rich Nawa. Call Rich, 541-592-4459.
- April 24 **Field Trip:** Lower Table Rock. Leader: Barbara Mumblo. See dwarf meadow-foam, a rare plant found nowhere else on earth, along with many other flowers found in a unique setting. Meet: 9 A.M., McDonald's parking lot, Barnet Rd., Medford. For more information, call Barbara, 541-899-1842.
- April 25, Sun. **Field Trip:** Khoerry Creek. Leader: Rich Nawa. See southwest Oregon's beautiful, unique and imperiled Port Orford cedars in an old-growth forest. For more information, call Rich, 541-592-4459.
- May 1, Sat. **Field Trip:** Illinois River canyon. Leaders: Don Heinze, Steve Marsden. Along with many other flowers, you will see the most accessible stand of *kalmiopsis* (for which the Wilderness was named) and a population of western *sopora*. Both are rare plants that were originally found and named after one of Oregon's best known pioneer botanists, Lila Leach. Meet: 9 A.M., south side of Selma Market parking lot in Selma. For more information, call Don, 541-955-7247.

South Coast

For information on the South Coast Chapter, call Bruce Rittenhouse, 541-888-9328.

Umpqua Valley

- April 8, Thur. **Meeting:** 7 P.M. Room 310, Douglas County Courthouse, Roseburg. Cheryl Beyer, BLM botanist, will introduce us to mosses, emphasizing the Fall Creek area.
- April 10, Sat. **Field Trip:** To Fall Creek area, up the N. Umpqua, Hwy. 138, to observe mosses, with botanist Cheryl Beyer as guide. Meet: BLM parking lot, 777 Garden Valley Blvd., prior to 8 A.M. departure. For information, call 673-3709.

Willamette Valley

- April 19, Mon. **Meeting:** 7 P.M. Room 225, United Methodist Church, 600 State St. NE, Salem. Brian Dutton of Western Oregon University will speak and show slides on "Planning a Modern Flora of Polk County, Oregon: A Status Report."
- May **Meeting:** 7 P.M. Room 225, United Methodist Church, 600 State St. NE, Salem. Miles McCoy will give a talk and show slides on the Oregon Garden at Silverton.

William Cusick

Officers: Newly elected officers are: Frazier Nichol, president; Bob Ottersberg, vice president; Lucinda Huber, secretary/treasurer.

- April 7, Wed. **Meeting:** 7 P.M. Forest and Range Laboratory, C Ave. & Gekeler Lane, La Grande. This will be a meeting to plan field trips and there will be a slide show of past trips. It has been scheduled early in the month, so that trips we plan can be reported in time to be in the next Bulletin.
- April 3, Sat. **Field Trip:** 1 P.M. Meet at Oregon Trail Interpretive Center, just outside of Baker City to look at their vegetation plan and then walk outside to look at their grounds. The BLM needs to do some veg management; they are writing an environmental assessment and would like input from NPSO members. If people are interested, Clair Button, BLM botanist, will also show us a unique mining restoration project nearby. For more information, call Clair, 541-523-1256.

IMPORTANT NOTE TO FIELD TRIP PARTICIPANTS

Field trips take place rain or shine, so proper dress and footwear are essential. Trips may be strenuous and/or hazardous. Participation is at your own risk. Please contact the trip leader or chapter representative about difficulty, distance, and terrain to be expected on field trips. Bring water and lunch. All NPSO field trips are open to the public at no charge (other than contribution to carpool driver) and newcomers and visitors are always welcome.

NOTICE TO FIELD TRIP CHAIRS AND LEADERS

The Forest Service and other agencies have set policies limiting group size in many wilderness areas to 12. The reason is to limit human impacts on these fragile areas. Each group using wilderness areas should be no larger than 12.

POSTAL NOTICE

Bulletin of the Native Plant Society of Oregon; John Robotham, Editor; 117 NW Trinity Pl. #28, Portland, OR 97209. Published monthly. Subscription price \$18/year. ISSN 0884-599. Date and issue number on page 1.

Karl Urban Remembered 1943-1999

"A flower is an exquisite thing - beautiful, delicate and a harbinger of hope for the green world that lets us all survive. I find no need to claim that flower as my own. With clear conscience I throw out the trowel! Flowers forever". (Reprinted from an article written by Karl in 1983 entitled "Requiem for a Haybaler: Throwing in (out) the Trowel")

Karl Urban was born June 6, 1943 in Kimberly, Idaho. He grew up in Kimberly where he attended grade and high school. In 1962 he attended the University of Idaho, where he majored in Botany, and he then received his masters in Botany in 1968.

In that same year he moved to Pendleton to accept a position as instructor of Botany at Blue Mountain Community College where he taught for 23 years. His spring wildflower identification classes became an anticipated event by many Pendleton residents. Each summer for many years, he also taught an intensive two week vascular plant identification course on the Steens Mountains. Here is a quote from one of Karl's writings on his approach to teaching. "Both by profession and by nature I am a teacher. I enjoy sharing my knowledge with others and am delighted when others "seize the torch" and want to learn more". We can say that Karl Urban popularized botany with non-professionals. He was one of the founding members of the Blue Mountain Chapter of the Oregon Native Plant Society, and his wife Elaine was the founding secretary. He was instrumental in the formation of National Wildflower Week. For his tireless efforts he went to Washington D.C. to receive national recognition. He was also instrumental in obtaining a National Science Foundation grant for a solar-heated greenhouse for Blue Mountain Community College.

In 1991 he became the botanist for the Umatilla National Forest. He cared a great deal about the forest resources and environment and had botanized virtually the whole of the Umatilla National Forest. He drew many of the wildflowers of the area and put them on coloring pages so children could learn about their natural heritage. These drawings can be found on the Internet at <http://www.aqd.nps.gov/npc:/color/> He also completed a natural vegetation map and associated database for the forest.

His recent work demonstrates the style which came to be Karl's. He worked with total dedication to produce in quantity and quality above and beyond the expectations of others. Karl demonstrated a multi-faceted life with his accomplishments attained during long hours of work but within relatively short time frames. He consistently amazed us with his output.

Probably one of the highlights of Karl's life was the year he spent on Sabbatical at Oregon State University It was 1988 and Karl felt that after twenty years of teaching it was time for a year of refresher studies. So while taking a full load of classes he decided that he still wasn't busy enough, so he proposed to Dr. Kenton Chambers that he might also compile a checklist database with the new computer technology available. Therefore by working day and night for three terms, Karl built the foundation for our current computer database, and he planted the seeds for the current "Oregon Flora Project".

To quote Karl one final time, "My efforts, imperfect as they may have been, were to serve as one of several catalysts that would help the Oregon Checklist and Flora projects get under way. My work is in good hands now, as Oregon's professional botanical community revises and builds upon a foundation I helped initiate. I am ecstatic that my work was not in

vain!" Nor was your life in vain Karl. Thank you for carrying that torch so long and so well. We will all do our best to see that the fire continues to burn.

Memorial contributions may be made to the Karl Urban Scholarship Fund at BMCC, directly, or through Burns Mortuary of Pendleton, P.O. Box 489, Pendleton, OR 97801.

Jerry Baker, Blue Mountain Chapter

In Memory of Karl Urban

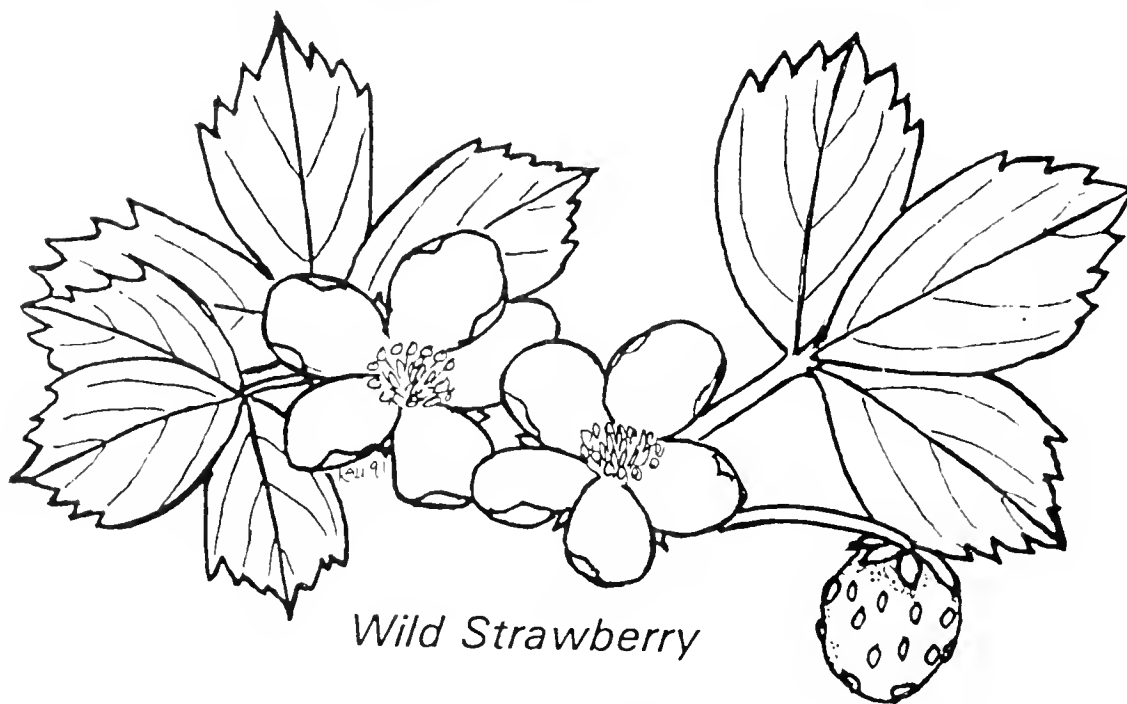
It was during my many summers at the Malheur Field Station in eastern Oregon that I came to know Karl Urban. During the summer of 1977 I was a cook at the field station, earning enough to take a class or two. Karl Urban was teaching his Vascular Plants of Steens Mountain which was a favorite class, often full to capacity. One attraction to the class was that the class departed early in the week and camped out on Steens Mountain until the weekend. Karl gave the students just enough time at the field station to do their laundry. Then back up the mountain to botanize in the quaking aspen groves, up to the high alpine meadows, down glaciated gorges, to the edges of melting snow packs, and around rushing mountain streams.

Another attraction to the class was the enthusiasm and love of the plants that Karl shared with his classes. Karl became very conservation-minded about collecting and studying the plants on Steens, especially since there are a number of endemic species in the area. After a plant had been keyed by the class, Karl used a big white sketch pad to tape a specimen or two with a list of the key characteristics for the whole class to study. This meant fewer collections of the same plants, ensuring an abundance of plants for many future classes and the public to enjoy.

It was in the summer of 1977 that as a cook I was most discouraged with the "balloon" type bread that was sent out on camping trips from the station. The white bread would get smashed and compacted after days in a box being tossed around on the bumpy roads and was not very useable for sandwiches. That was when I decided to make Karl Urban's class homemade whole wheat bread to last them through their week on Steens Mountain. Karl was very grateful for this special addition to the supplies since it made his week just a little easier on the mountain top. In gratitude for the whole wheat bread and for packing his week long supplies; Karl and his class presented me with a copy of the Flora of the Pacific Northwest by Hitchcock and Cronquist inscribed by Karl and his class. This random act of kindness was typical of Karl. We will miss Karl for his enthusiasm in teaching botany and for his love of plants, especially of Steens Mountain.

Esther Gruber McEvoy, Corvallis Chapter

The drawing and text below are by Karl Urban



Wild Strawberry

Fragaria vesca Rose Family
Fruits Edible; Leaves - Tea

It's hard to find the fruits of the Wild Strawberry because they are a favored food of many small animals and birds of the Forest. The flowers of the Wild Strawberry usually appear in late May or June and the red berries mature in late July. This wildflower is common on relatively open forested slopes in the Blue Mountains. It is common on all districts of the Umatilla National Forest.

"Every Species Counts"

Mill Creek Falls Knapweed Pull

Saturday and Sunday, May 1-2

Mike Igo led a hike into Mill Creek Falls during the NPSO Annual Meeting in May 1998. While there, we noted that fire road disturbance dating from the 1978 "School Marm" fire introduced diffuse knapweed into this unique, isolated community of west-side plants in the middle of the desert. We vowed to return and remove it. We did, in August of last year, and we plan to return again this spring to remove any knapweed that may have escaped our attention last August. We will also remove knapweed along some of the watershed service roads.

Mill Creek Falls is a spectacular, towering waterfall that drops into a deep, north-facing basalt canyon on South Fork Mill Creek, in The Dalles Watershed, an area not open to public access. The mist-filled canyon at the base of the falls supports a plant community reminiscent of similar settings in the Western Gorge. Here, however, thimbleberry thickets and towering western red cedar grow surrounded by a parched landscape of oak, juniper and sage. In May, balsamroot and lupine will adorn the surrounding oak savanna.

This weekend work party will be a privileged opportunity to visit this unique spot. We have made arrangements with The Dalles Watershed to gain entry. Party size will be limited to about 15. We will camp Saturday night near the reservoir. Access to our campsite will be by 4WD trail. This will be a joint venture with the Pacific Coast Rover Club, whose members will provide transportation by Land Rover into our campsite. This will be a primitive camp with no water, though we will have the use of the patrol cabin for cooking and gear storage.

Contact Mike McKeag, (503) 642-3965, mmckeag@teleport.com to sign up, and for more information, including meeting time and location Saturday morning.

Michael McKeag, Portland Chapter

NPSO Items for Sale

Oregon's Rare Wildflower Poster depicts Punchbowl Falls and three of the Columbia River Gorge's endemic wildflowers. Text on the back describes the natural history of the Gorge and the mission of the NPSO. Available from Stu Garrett, 21663 Paloma Dr., Bend, OR 97701 (541) 389-6981. Individual may order posters at \$12 each, plus \$3 per order for shipping. Posters are mailed in tubes. Chapter treasures may contact Stu for wholesale prices to chapters.

NPSO Window Stickers are decals with NPSO's trillium logo in green over an opaque white background, for use inside car windows. Available from Stu Garrett, \$1, minimum order five.

NPSO's Original Wildflower Poster depicts 13 Oregon wildflowers in a striking artist's rendition. Soon to be a collector's item. Available from Stephanie Schulz, 84603 Bristow Rd., Pleasant Hill, OR 97455, \$5 each, plus \$3 per order for shipping. Posters are mailed in tubes.

Conservation and Management of Native Plants and Fungi: Proceedings of an Oregon Conference on the Conservation and Management of Native Vascular Plants, Bryophytes, and Fungi. Edited by Thomas N. Kaye, Aaron Liston, Rhoda M. Love, Daniel L. Louma, Robert J. Meinke, and Mark V. Wilson, with a foreword by Reed F. Noss. Available from NPSO Conference Proceedings, 804 Jefferson Ave., La Grande, OR 97850. (541) 962-7749. SALE PRICE: \$5, plus \$2.50 for shipping.

WHAT IS THAT FLOWER?

Learn to identify and recognize the common wildflowers of the Willamette Valley. Rhoda Love, retired professor of botany at Lane Community College, will show you how, on Friday, Saturday and Sunday, April 30, May 1 and 2, from 9 A.M. to 3 P.M. each day. The course is sponsored by Mt. Pisgah Arboretum and will take place at Emerald People's Utility in Eugene. Space is limited, so register early. Call the MPA Education Program, 541-747-1504, to register.

GLIDE WILDFLOWER SHOW

The 33rd annual Glide Wildflower Show will take place on April 24 and 25, 1999 at the Glide Community Center, Highway 138 East, in Glide, Oregon. Admission is free, although donations are welcome. The event is accessible by wheelchair. For conservation reasons, you are asked not to bring unsolicited specimens.

For more information, call Eleanor Hayes at 541-496-3616, or write to: Glide Wildflower Show, Box 332, Glide, Oregon 97443.



Friends of the Oregon Flora Project

Volunteers of the Oregon Flora Project have been busy. Recent work includes developing an electronic plant Atlas prototype, recording herbarium specimen label data, and compiling portions of the *Oregon Vascular Plant Checklist*.

This fall, the Native Plant Society of Oregon is sponsoring the Friends of the Oregon Flora Project to help raise the funds necessary to produce a new *Flora of Oregon*. Currently, the Friends Committee is looking for the talents of a few enthusiastic folks to help us with grant writing, record keeping, and developing a dynamic fund raising strategy. We plan to initiate a campaign to reach new contributors, both individual and corporate, and secure funding for key staff positions. If you'd like to help, please contact me, Keli Kuykendall at 541.758.8409, kuykendk@peak.org, or write to me at our new Friends address.

Friends of the Oregon Flora Project
P.O. Box 402
Corvallis, OR 97339-0402

NATIVE PLANT SOCIETY OF OREGON MEMBERSHIP FORM

Name _____
 Address _____
 City _____
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Is this a change of address?

If so, please write your **old address** here:

Please make checks for dues and contributions payable to:

NATIVE PLANT SOCIETY OF OREGON

DUES include monthly *Bulletin* and *Kalmiopsis* when published. Membership is for calendar year. January to December.

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 () Regular..... \$18
 () Family..... \$24
 () Sustaining..... \$50
 () Patron..... \$100
 () Life Membership..... \$500

() Subscription Only (*Bulletin* & *Kalmiopsis*)..... \$18
*Only for those who wish to subscribe,
 but do not want to have full membership status.*

CONTRIBUTIONS to NPSO are tax deductible.

Jean Davis Memorial Scholarship Fund \$ _____
 Leighton Ho Memorial Field Botany Award
 Fund \$ _____
 Rare and Endangered Plant Fund \$ _____

Membership is for the calendar year.

New memberships enrolled after September 1 include the following year.

Send completed form and full remittance to:

Jan Dobak, NPSO Membership Chair, 2584 NW Xavier St., Portland, OR 97210-2412

Membership in the Native Plant Society of Oregon is open to all.

Membership applications, renewals and change of address (include old address) should be sent to the Membership Chair

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 TREASURER.....Jean France.....5877 SW Kennycroft Way, Lake Oswego, 97035-7023; (503) 639-0741

CHAPTER PRESIDENTS

BLUE MOUNTAIN (Pendleton) Jerry Baker..... 58840 Bar M Lane, Adams, OR 97810-3003; (541) 566-3381
 CHEAHMILL Kareen B. Sturgeon..... 1135 Winterwood Loop, McMinnville, OR 97128; (503) 472-0866
 CORVALLIS.....Steve Northway..... 24073 Decker Rd., Corvallis 97333-9510; (541) 929-5375
 EMERALD (Eugene).....Gail Baker & Rhoda Love..... 3927 Shasta View St., Eugene, OR 97405-4442; (541) 344-8377
 HIGH DESERT (Bend).....Stu Garrett..... 1501 NE Medical Center Dr., Bend, OR 97701; (541) 389-6981
 KLAMATH BASIN David Lebo..... 642 Front St., Klamath Falls, OR 97601-1914; (541) 850-9770
 MID-COLUMBIA Barbara Robinson..... P.O. Box 682, Mosier, OR 97040; (541) 296-5334
 NORTH COAST.....Christine Stanley..... P.O. Box 201, Cannon Beach, OR 97110-0201; (503) 436-0161
 PORTLAND.....Shane Latimer..... 1605 SE 36th Ave., #3, Portland, OR 97214-5123; (503) 232-7405
 SISKIYOU.....Jennifer Beigel & John Roth..... P.O. Box 1846, Cave Junction, OR 97523-1846; (541) 592-2831
 SOUTH COAST.....Tim Rodenkirk..... 611 N. 12th St., Coos Bay, OR 97420; (541) 269-4696
 UMPQUA VALLEY (Roseburg).....Sandra Stiltner..... 1963 Lookingglass Rd., Roseburg, OR 97470-9100; (541) 672-5903
 WILLAMETTE VALLEY (Salem).....Walt Yungen..... 2020 Center St. NE, Apt. 32, Salem, OR 97301; (503) 581-9511
 WM CUSICK (La Grande).....Frazier Nichol..... c/o Dick Kenton, 1805 U Ave., La Grande, OR 97850; (541) 963-7870

STATE COMMITTEE CHAIRS

EDUCATION.....Jerry Igo..... P.O. Box 603, Mosier, OR 97040
 RARE AND ENDANGERED.....Bruce H. Rittenhouse.. 550 Fillmore, Coos Bay, 97420-2811; w:756-0100;h:(541) 888-9328
 CONSERVATION, EAST SIDE.....Stu Garrett..... 1501 NE Medical Center Dr, Bend 97701; (541) 389-6981
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 BUDGETS AND GRANTS.....Dan Luoma..... 3740 NW Harrison, Corvallis 97330; (541) 752-8860

PUBLICATIONS

BULLETIN EDITOR.....John Robotham..... 117 NW Trinity Pl, Apt. 28, Portland 97209; (503) 226-6371
 KALMIOPSIS EDITOR.....Linda Ann Vorobik..... RR 1 Box 1964, Lopez Island, WA 98261-9528; (360) 468-3188
 WEBMASTER.....Lisa Karst..... 8730 SW Washington Dr., Portland, 97223-6866, (503) 977-9818

Send change of address notices
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Native Plant Society of Oregon
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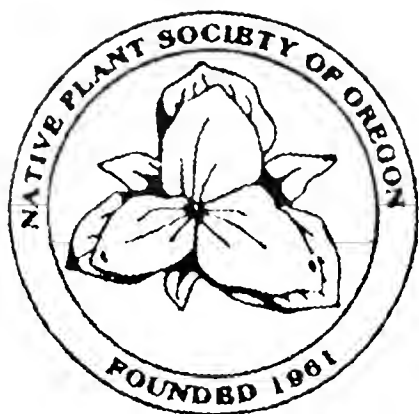
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NATIVE PLANT SOCIETY OF OREGON
World Wide Web: <http://www.NPSOregon.com>
General Business Address: P.O. Box 902, Eugene, OR 97440
or correspond directly with the Officers and Committee Chairs listed on the inside back page.
Membership Inquiries Only: Jan Dobak, 2584 NW Savier St., Portland, OR 97210-2412



Bulletin of the Native Plant Society of Oregon

Dedicated to the enjoyment, conservation, and study
of Oregon's native vegetation

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State News

- July 30 - Aug. 1 **Annual Meeting:** The Emerald Chapter is hosting the 1999 Annual Meeting in the high country of McKenzie Pass. See April Bulletin for registration material. CORRECTION: THE REGISTRATION FORM HAS 2 DATES LISTED AS DEADLINE. CORRECT DATE IS JUNE 15. For pictures/notes of meeting site, check our website: <http://www.NPSOregon.org/annual/annualmt.htm>
- Aug. 1, Sun. **Board Meeting:** On Sunday morning at the annual meeting.

Chapter News

Blue Mountain

- May 10, Mon. **Meeting:** 7 P.M. Room 130, Morrow Hall, Blue Mt. Community College. Loren Russell will give a slide presentation on Oregon alpine wildflowers. This will be a joint meeting with the local chapter of Trout Unlimited.
- May 16, Sun. **Field Trip and Barbecue:** Meet: NE corner, Pendleton Safeway parking lot, to car pool to Bar M Ranch. There, at 9 A.M., Jerry Baker will lead a field trip up the Umatilla River toward Ruckle Ridge. Arrive back at the ranch about 1 P.M. for a barbecue. Bring salad or dessert. Jerry will supply hamburgers and buns.
- May 23, Sun. **Field Trip:** Jerry Baker will lead up Linton Mtn. From the Walla Walla River to the Tollgate Chalet (elev. About 4000 ft.) Meet: NE corner Pendleton Safeway parking lot, 8 A.M., or call Jerry, 541-566-2244, to meet elsewhere.
- June 3, Sun. **Field Trip:** Sandy Ott will lead to see the restoration project along McKay Reservoir, a project of McKay Refuge and the Federated Tribes native plant nursery. Meet: NE corner, Pendleton Safeway parking lot, 9 A.M.

Cheahmill

- May 1, Sat. **Field Trip:** Deer Creek County Park. Leader: Dave Hanson. We will observe the results of the prescribed burn conducted last fall in the wet prairie and in the upland

where the colony of Kincaid's lupine should be in bloom. Meet at the park, 10 A.M. For more information, call Dave, 503-843-4338.

- May 15, Sat. **Field Trip:** Gahr Farm. Leader: Ted Gahr. Upland forest, riparian and wetland tour. Meet: 9:30 A.M. For more information, call Ted, 503-472-6960.
- May 22, Sat. **Field Trip:** South Beach State Park and Mike Miller County Park. Leaders: Chuck and Patti Buffett. Plants of the dunes and coastal pine forests. Meet: South Beach State Park day-use parking area, 10 A.M. For more information, call Chuck, 503-843-7184.
- May 27, Thur. **Meeting:** 7 P.M. Carnegie Room, McMinnville Public Library, 225 NW Adams, McMinnville. Peg Mathewson, who holds a doctorate in anthropology from UC Berkeley and is currently a post-doctorate fellow at the Smithsonian Institution, will present "An Overview of Oregon Indian Ethnobotany." In this lecture/slide show, she will discuss the major plants used for food, tools and clothing in the Great Basin, Plateau, Willamette Valley and coastal regions of Oregon.
- May 29, Sat. **Field Trip:** Niagara Falls in the Nestucca watershed. Leader: Marilynn Karbonski. Easy to moderate hike (2 mi. R.T.) into a gorge to view this spectacular falls. Meet: Yamhill ESD, 8:30 A.M., to car pool. Bring lunch and water. For more information, call Marilynn, 503-852-7230.

Corvallis

- May 1, Sat. **Field Trip:** Walk up the gorge of the Mary's River, west of Philomath, along a railroad grade to look for *Sagittaria latifolia*, camas, other plants in flower. Meet: OSU parking lot, southwest of the Beanery, 26th and Monroe, 9 A.M. Call Steve Northway, the trip leader, 541-929-5375, for more information.
- May 6, Thurs. **Field Trip:** Exploring mosses and lichens at Finley Wildlife Refuge, with Dr. David Wagner, Northwest Botanical Institute. Meet: 3 P.M., Refuge headquarters. (The Refuge is west of Hwy. 99W, about 12 mi. south of Corvallis.) Corvallis participants may meet at 2:30 outside Senior Ctr., 2601 NW Tyler Ave., to car pool. Call Dr. Wagner, 541-344-3327, or Cliff Cooper, 541-757-3527, for more information.
- May 10, Mon. **Meeting:** 7:30 P.M. Avery House, Avery Park, Corvallis. Topic TBA. Call Steve Northway, 541-929-5375, for information.
- May 15, Sat.. **Field Trip:** Repeat of May 1 trip, probably with different species in bloom. Same time/place. Call Steve Northway, 541-929-5375, for more information.
- May 22, Sat. **Field Trip:** Visit remnant oak-savanna community near Hood River, including the orchid, *Cypripedium montanum*. Joint trip with Mary's Peak Orchid Society and NPSO's Mid-Columbia Chapter. Meet: OSU parking lot, southwest of the Beanery, 26th and Monroe, Corvallis, 7:15 A.M. Call Steve Northway, 541-929-5375, or Barbara Robinson, 541-296-5334, for more information.
- May 29, Sat. **Field Trip:** Mary's Peak. We'll concentrate on the west slope. Look for *Erythronium oregonum*, *Fritillaria affinis*, *Penstemon rattanii*, *Delphinium menziesii*, more. Meet: OSU parking lot, southwest of the Beanery, 26th and Monroe, Corvallis, 9 A.M.

Contact Loren Russell, 541-752-7558, or loren@peak.org for more information.

Emerald (20th anniversary year)

- May 15, Sat. **Field Trip:** Kathy Pendergrass, BLM botanist, will take us to look at establishing plant communities at wetland mitigation sites in the West Eugene wetlands. 8-12 A.M. Please call Kathy, 541-683-6477, for more information.
- May 15, Sat. **Wildflower Festival:** To help with set-up of Mt. Pisgah Arboretum Wildflower Festival, come to Arboretum (off Seavey Loop Rd.) starting at 8 A.M. Your help will greatly benefit the show. For more information, call Gail Baker, 344-8377 or 747-4501x2085, or Dale McBride, 726-1932.
- May 16, Sun. **Wildflower Festival:** Set-up for MPA Wildflower Festival, at Arboretum (off Seavey Loop Rd.) starting at 7:30 A.M. Many tasks are needed to make the show come together, and your help will be much appreciated. For information, see above.
- May 16, Sun. **Wildflower Festival:** 10 A.M. - 4 P.M. Mt. Pisgah Arboretum Wildflower Festival. Celebrate the life and discoveries of David Douglas, in commemoration of the 200th anniversary of his birth, at this annual spring festival, centered around a grand display of wildflowers collected throughout Lane County. All flowers are identified and experts are on hand to identify flowers you bring. The display includes a wide variety of native species, a section on poisonous and medicinal plants and their uses and a selection of grasses, rushes and sedges. There will be guided nature walks, nature craft vendors, live music, children's activities and, new this year, a wildflower photo contest. The event is a cooperative effort of Mt. Pisgah Arboretum, the NPSO and botany students and staff of Lane Community College. Call 541-747-1817, or Dale McBride, 726-1932, for more information. \$2 individual, \$5 family.
- May 24, Mon. **Meeting:** 7:30 P.M. Room 109, Science Building, main campus, Lane Community College. "The Long Happy Life of Louis F. Henderson" is the subject of Rhoda Love's talk on one of the Northwest's most remarkable plant collectors. Henderson saw mayhem and murder as a boy in Mississippi in the Civil War, went to Cornell, came west in 1874, and tirelessly botanized in OR, WA and ID until his death in 1942. Directions: From 30th Ave., turn south on Eldon-Schafer Dr., go past Oak Hill School and park in LCC's south parking lot, east end. Walk downstairs to Science Building.

High Desert

Meeting: No meeting in May.

Klamath Basin

- May 11, Tues. **Meeting:** 7 P.M. Room 219 Owens Hall, OIT, Klamath Falls. Guest speaker to be announced. For more information, please call David Lebo, 883-8393.
- May 15, Sat. **Field Trip:** Sycan Marsh along with Klamath Basin Chapter of Audubon Society. Leader: Paul Bakke. Meet: Veteran's Park (downtown) 8 A.M., to car pool to the Marsh. Please join us to view flora and fauna and celebrate spring's arrival after a

long winter.

Mid-Columbia

- May 2, Sun. **Field Trip:** Hike to McCall Point (1000 ft.) in the oak woodland area of the Gorge, at the peak bloom of the balsamroots, lupines and Indian paint brush, for a gorgeous view. Offered in conjunction with the Columbia Gorge Discovery Center. **Registration required!** To register, call David Weiss (Forest Service), 541-296-8600, ext. 213. Leader: Barbara Robinson, 296-5334. Meet: 10 A.M., Discovery Center, The Dalles, exit 82 off I-84.
- May 5, Wed. **Meeting:** 7:30 P.M. Discovery Center Theatre, The Dalles. Linda McMahan, of the Berry Botanical Garden, tells us about the Partners for Plants program in which volunteers spend a week in the field in the Gifford Pinchot National Forest studying rare plants, and can receive college credit.
- May 22, Sat. **Field Trip:** Visit Jerry Igo's lovely acreage in the oak woodlands of the Gorge. See lady slipper orchids and many other flowers. Jerry will show us around. Trip is in conjunction with Corvallis Orchid Society. Meet across from the Mosier Store, exit 69 off I-84.
- June 2, Wed. **Meeting:** 7:30 P.M. Discovery Center Theatre, The Dalles. Bruce Taylor will present a program on the Oregon Wetlands Joint Venture, to acquaint us with this project's aims and accomplishments.
- June 19, Sat. **Field Trip and Weed Pull:** See a beautiful Nature Conservancy preserve that is normally not accessible to the public, and help pull knapweed. Meet: Goldendale, 9:30 A.M., caravan 30 min. east to this 400 acre oak/grassland canyon preserve. Call Lynn Cornelius, 360-263-1667, to sign up and get details on mtng. Place. Limit: 25.

North Coast

For information on the North Coast Chapter, call Christine Stanley, 503 436-0161.

Portland

- May 2, Sun. **Field Trip:** McCall Point. Car pool from Gateway/99th Ave. Park & Ride, southeast corner of parking lot. Take exit 7 off I-84, turn immediately right onto NE 99th Ave. Leave 8:30 A.M. Meet trip leader at trailhead. **Pre-registration required.** See Mid-Columbia Chapter for more information.
- May 9, Sun. **Field Trip:** Bald Butte. One of last year's most memorable hikes. See calypso orchid, *Arabis sparsiflora*, *Phoenicaulio cheiranthoides*, and many more on this moderate hike up on the ridges overlooking the beautiful Hood River Valley. Car pool from Gateway/99th Ave. Park & Ride. Leave 8:30 A.M. **Pre-registration required.** Call trip leader Beth Magnus, 226-7919, to sign up.
- May 11, Tues. **Meeting:** 7 P.M. First United Methodist Church, 1838 Jefferson St., Portland. Botanist and Forest Ecologist Christine Ebrahimi will speak about "A Love Affair With The Steens," after 12 years of studying the flora, from the grasslands to the

alpine areas. THIS PROGRAM, CANCELLED IN APRIL, IS NOW PRESENTED.

- May 15, Sat. **Field Trip:** Roaring River. Join trip leader Carol Horvath on this beautiful forest hike where the two rivers meet along the Clackamas. See *Iris tenuis*, *Fritillaria lanceolata*, *Selaginella douglasii*, plus a few mosses, lichens and liverworts on this moderate 2 to 4 mi. R.T. trail. Leave 9 A.M. from Gateway/99th Ave. Park & Ride. Call Carol, 775-2650, for more information.
- May 22, Sat. **Field Trip:** Jerry Igo's place. Car pool from Gateway/99th Ave. Park & Ride. Leave: 9:30 A.M. See Mid-Columbia Chapter for more information,
- June 5, Sat. **Field Trip:** Saddle Mt. One of the most-talked-about trails in Oregon, for its wildflowers. Trip leader Christine Stanley takes us on this moderate, 5 mi. R.T. climb. Leave 8:30 A.M., east end of Cedar Hills Shopping Center parking lot. (Westbound from Portland on Hwy. 26, take exit 69-B, follow signs to Cedar Hills. Northbound on Hwy. 217, take exit to Hwy. 26E/Cedar Hills, follow signs to Cedar Hills). **Trip limit is 12, so pre-registration is required.** To register, call Greg Stone, 652-1531, **after May 23.**
- June 19, Sat. **Field Trip:** See Mid-Columbia Chapter.
- June 20, Sun. **Field Trip:** Bald Mt. Along with great views of Mt. Hood, trail should lead to the spectacular *Lilium washingtonianum*, *Calochortus subalpinus*, plus the rhodies and beargrass should be in show as well. Moderate, 4-6 mi. R.T., with 800 ft. elev. Gain. Trip leader: Beth Magnus. Meet: Gateway/99th Ave. Park & Ride, southeast corner of parking lot. Leave: 8:30 A.M. For more information, call Beth, 226-7919.
- July 11, Sun. **Field Trip:** Sheep Canyon near Mt. St. Helens. Details later.

Siskiyou

- May 1, Sat. **Field Trip:** Illinois River Canyon. Leaders: Don Heinze, Steve Marsden. Along with many other flowers, you will see the most accessible stand of kalmiopsis (for which the Wilderness was named) and a population of western sopora. Both are rare plants that were originally found and named after one of Oregon's best-known pioneer botanists, Lila Leach. Meet: 9 A.M., south side of Selma Market parking lot in Selma. For more information, call Don, 541-955-7247.
- May 20, Thur. **Meeting:** 7:30 P.M. Room 171, Science Building, SOU, Ashland. Dr. Dominick DellaSala will present "Saving the Klamath Knot: A Living Community Vision for a World Class Region."

South Coast

For information on the South Coast Chapter, call Bruce Rittenhouse, 541-888-9328.

Umpqua Valley

Officers: Newly elected officers are: Cheryl Beyer, president; Richard Sommer, vice president; Russ Holmes, secretary/treasurer.

- May 2, Sat. **Field Trip:** Cheryl Beyer will lead to a native plant restoration project. Meet: Umpqua Community College flag pole, 10 A.M. Call Cheryl, 440-4931, ext. 269, for more information.
- May 13, Thur. **Meeting:** 7 P.M. Room 310, Douglas County Courthouse, Roseburg. Jeanne Klein, BLM botanist, will speak on noxious and exotic weeds. Call Cheryl Beyer, for more information.
- May 15, Sat. **Field Trip:** Jeanne Klein will lead to the North Bank ACEC to see noxious weeds and BLM management efforts. Meet: BLM parking lot, 777 Garden Valley Blvd., 8 A.M. Call Jeanne, 673-6970, for more information.
- June 10, Thur. **Meeting:** 6:30 P.M. Kanipe Memorial Park, Elkhead Rd. Annual potluck dinner. Main dish provided, bring side dishes and dessert. Call Cheryl Beyer, for more information.

Willamette Valley

- May 1, Sat. **Field Trip:** Independence Rock, near Marion Forks. Leaders: George and Harriet Schoppert. Meet: 9 A.M., Gingerbread House in Mahama. Please check with the Schopperts the evening before, to make sure we can get there.
- May 15, Sat. **Field Trip:** Finley Refuge. Leaders: Glenn and Barbara Halliday. Check with the Hallidays, 503-371-1025, for details.
- May 17, Mon. **Meeting:** 7 P.M. Room 225, United Methodist Church, 600 State St. NE, Salem. Miles McCoy will give a talk and show slides on the Oregon Garden at Silverton.
- May 29 - 31, Sat. - Mon. **Field Trip:** Trips to Illinois Valley and the Siskiyou Mountains of SW Oregon, led by Wilbur Bluhm. Come for one, two or three days. Meet: 8 A.M. each morning, Junction Inn, Cave Junction, intersection of US Hwy. 199 and State Hwy. 46. Easy to moderate hiking. Take lunch and water each day.

William Cusick

Meeting: No meeting in May.

- May 8, Sat. **Field Trip:** 8:30 A.M. - mid-afternoon. From Forest and Range L, Gekeler and C, we will car pool to William Cusick Canyon. This site, near Thief Valley Reservoir, has the same name source as our chapter. It's a small canyon in the middle of rolling, sagebrush hills. You can see some of the species Mr. Cusick named and some of the wild, edible plants in this area. Take lunch, hiking boots, dress for any weather. For more information, call Bob Ottersberg, 963-6043.
- May 16, Sun. **Field Trip:** 2 - 4 P.M. Barbara Russell will lead a trip on Jennie Tucker's land near Summerville to point out different native plant habitats and the communities that inhabit each one. Helpful to people wondering what will grow in their yards. Meet at Barbara's house, 1803 Cedar in La Grande (962-7749) by 1:30 to car pool, or drive to Jennie's on your own. (From the Summerville Store, go N. on Summerville Rd. to Courtney Lane, turn right, go 100 yds, turn left on Pumpkin Ridge Rd., in about 1 mi. left on Myers Rd., go about 2 mi. to 68915. There is a closed, not locked, gate,

house with green metal roof.

- May 19, Wed. **Field Trip:** 6 - 7 P.M. Karen Antell will lead an evening stroll in the Ladd Marsh meadow to view spring wildflowers. Meet: overlook on Foothill Rd., south of La Grande; from there we will car pool to the meadow. For more information, call Karen, 962-3672.
- May 22, Sat. **Field Trip:** 9 A.M. Washington NPSO, Tri-Cities Chapter, will hold a field trip near Jubilee Lake, north Union County, to see calypso orchids, yellow bells and many others. Leader: Inez Austin, Tri-Cities DEQ. Call Andy Huber, 962-3543 or 962-1512, for specifics.
- June 5, Sat. **Field Trip:** 9:30 A.M. - Noon. Visit Andy Huber's experimental site for native plant propagation -- GROWISER/Grande Ronde Overlook Wildflower Institute Serving Ecological Restoration. Expect to see mountain lady's slippers, Blue Mountain penstemon, columbine, orange honeysuckle and many more. Meet: Bean Coffic Rd., 2 mi. east of Summerville Hwy. (The turnoff is 5 mi. north of Summerville or 1 mi. south of Hwy. 204 (the Tollgate Hwy.)) For information, call Andy Huber, 962-3543 or 962-1512.
- Mid-June **Field Trip:** Watch the Observer for a tour of noxious weeds near La Grande. Led by Dick Kenton.

IMPORTANT NOTE TO FIELD TRIP PARTICIPANTS

Field trips take place rain or shine, so proper dress and footwear are essential. Trips may be strenuous and/or hazardous. Participation is at your own risk. Please contact the trip leader or chapter representative about difficulty, distance, and terrain to be expected on field trips. Bring water and lunch. All NPSO field trips are open to the public at no charge (other than contribution to carpool driver) and newcomers and visitors are always welcome.

NOTICE TO FIELD TRIP CHAIRS AND LEADERS

The Forest Service and other agencies have set policies limiting group size in many wilderness areas to 12. The reason is to limit human impacts on these fragile areas. Each group using wilderness areas should be no larger than 12.

POSTAL NOTICE

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Opinions expressed in this publication are those of the authors of the articles.
They do not represent the opinions of the Native Plant Society of Oregon, unless so stated.

Guidelines for Contributors to the Bulletin

The NPSO Bulletin is published monthly as a service to members and the public.

All kinds of contributions are welcome. **Copy is due by the 10th of the month.**

CREDITS: Identify author and affiliation. If it's not original, cite source and date.

ILLUSTRATIONS: Line drawings and high contrast black-and-white prints are useable.

Contact editor for current needs, or send illustrations with the article.

BOTANICAL NOMENCLATURE: Follow "Flora of the Pacific Northwest" by Hitchcock, or "The Jepson Manual," where appropriate.

FORMAT: Submissions can be in any form. For further details, consult editor.

ORIGINALS: Submissions are not returned, unless requested.

Ants and Plants (a Mutualism)

Naturalists spend much time being botanists or zoologists or perhaps just "birders" or "mushroom specialists". Often overlooked are the fascinating ways in which plants and animals inter-relate in what are sometimes called mutualisms (i.e. relationships that benefit two or more participating species). One mutualism relates ants to plants in an important way — ants gain food, plants gain a means of dispersal. The seeds of some of our native and introduced plants have, attached to their seed coat, small food bodies called elaiosomes. They are usually rich in fats but are now known to contain other compounds such as sugars, amino acids and aromatic substances. As seeds fall to the ground ants and possibly other organisms take them to crevices and nests, consume the food body but leave viable seed in sites where they may germinate. The dispersal mechanism was recognized as significant by Sernander in 1906. The phenomenon of ant-mediated dispersal of seeds has been termed myrmecochory. More study of the phenomenon is warranted.

Other organisms "eat" elaiosome-bearing seeds — rodents, birds, slugs, insects. Some elaiosomes appear to produce aromatics and therefore may be attractants. Thus far however only ants are known to have a truly mutualistic relationship with elaiosome-bearing seeds. Recently we looked on the forest floor in Pacific Spirit Park (Vancouver BC) for plants which have seeds with elaiosomes. Several species were found to possess them including the native Pacific bleeding heart (*Dicentra formosa*), Siberian spring beauty (*Claytonia sibirica*), violets (*Viola* spp.), wild ginger (*Asarum caudatum*) and trillium (*Trillium ovatum*), and the European shrub Scotch Broom (*Cytisus scoparius*). A scanning electron micrograph of a seed of *Dicentra* from the park shows a food body on the seed coat.

Mutualisms are attracting more attention (1,2). The authors would encourage naturalists to collect native plant seeds, to examine them for elaiosomes and to search for evidence of mutualisms. Elaiosomes appear to us as very beautiful in form, even under a hand lens. Elaiosomes are characteristic of many species but seem to occur rather randomly within genera and families. They are found in grass, sedge, legume, aster, borage and mint families, to name a few, and in a wide range of habitats.

1. Ecological relations of plants with and termites J.C. Uphof. the Botanical Review 8:563-598 (1942).
2. Ecological relationships of plants and animals H.F. Howe and Lynn C. Westley, Oxford University Press (1988)

Frank Skelton and Bert Brink

Reprinted, with permission, from the Vancouver, B.C. Natural History Society's journal, "Discovery."

Shady Cove Wildflower Show

The 18th annual Shady Cove Wildflower Show will be held on Saturday and Sunday, May 1 and 2, 1999, from 10 A.M. to 4 P.M.

It will be located in the Shady Cove School Multipurpose Building on Cleveland Street (just off Highway 62) in Shady Cove, which is about 15 miles north of Medford. Admission is by donation.

NPSO Items for Sale

Oregon's Rare Wildflower Poster depicts Punchbowl Falls and three of the Columbia River Gorge's endemic wildflowers. Text on the back describes the natural history of the Gorge and the mission of the NPSO. Available from Stu Garrett, 21663 Paloma Dr., Bend, OR 97701 (541) 389-6981. Individual may order posters at \$12 each, plus \$3 per order for shipping. Posters are mailed in tubes. Chapter treasures may contact Stu for wholesale prices to chapters.

NPSO Window Stickers are decals with NPSO's trillium logo in green over an opaque white background, for use inside car windows. Available from Stu Garrett, \$1, minimum order five.

NPSO's Original Wildflower Poster depicts 13 Oregon wildflowers in a striking artist's rendition. Soon to be a collector's item. Available from Stephanie Schulz, 84603 Bristow Rd., Pleasant Hill, OR 97455, \$5 each, plus \$3 per order for shipping. Posters are mailed in tubes.

Conservation and Management of Native Plants and Fungi: Proceedings of an Oregon Conference on the Conservation and Management of Native Vascular Plants, Bryophytes, and Fungi. Edited by Thomas N. Kaye, Aaron Liston, Rhoda M. Love, Daniel L. Louma, Robert J. Meinke, and Mark V. Wilson, with a foreword by Reed F. Noss. Available from NPSO Conference Proceedings, 804 Jefferson Ave., La Grande, OR 97850. (541) 962-7749. SALE PRICE: \$5, plus \$2.50 for shipping.

NPSO Membership Directory lists names, addresses, phone numbers of NPSO members (April 1999). Available for \$3 from Jan Dobak, 2584 Savier St., Portland, OR 97210.

Mt. Pisgah Arboretum Wildflower Festival to Honor David Douglas.

Displays will illustrate his Willamette Valley Search for the Sugar Pine.

Sunday, May 16, Mt. Pisgah Arboretum

Eugene Oregon. 10 A.M. - 4 P.M.

Celebrate the life and discoveries of David Douglas in commemoration of the 200th year of his birth, at this annual spring festival, centered around a grand display of wildflowers collected throughout Lane County. The display includes a spectacular variety of beautiful native species, a special section identifying poisonous and medicinal plants and their uses and an extensive selection of grasses, rushes and sedges. There will also be a plant sale, guided nature walks, nature craft vendors, live music, children's activities, and, new this year, a wildflower photo contest.

This event is a cooperative effort of the Mt. Pisgah Arboretum, the Native Plant Society of Oregon and the botany students and staff of Lane Community College. Suggested donation: \$3 individual, \$6 family. Mt Pisgah Arboretum is located off Seavey Loop in Eugene OR. For directions, and detailed information about this special event call the Arboretum (541) 747-3817 and visit the web site at: www.cfn.org/~mtpisgah/

Peck's Manual Available

Emerald Chapter member, Mari Baldwin, wishes to sell a copy of A Manual of the Higher Plants of Oregon by Morton Peck, 1961. She can be reached at 541-683-7796, or e-mail: marib@cfn.org

Wetland Scientists to Meet

The Pacific Northwest Chapter of the Society of Wetland Scientists will have their 1999 regional meeting at the Hallmark Inn and Performing Arts Center in Newport, Oregon on May 19, 20 and 21. The Wednesday evening icebreaker will be held at the Hatfield Marine Science Center. Dune Ecology, Estuaries, Grasses, Rushes and Sedges and Wetlands and the Endangered Species Act are a few of the topics. There will be field trips to Neskowin Marsh, Salmon River Estuary and Beaver Creek Marsh, among others.

A registration packet can be obtained from PNW Chapter of SWS, c/o Heather Stout, 130 NW 19th St., Suite A-286, Newport, OR 97365, or e-mail: hstout@teleport.com

1999 Natural Areas Conference

The Holiday Inn, City Center, Tucson, Arizona, is the setting for the 1999 Natural Areas Conference which will take place October 13 - 16. "Invasive Species," "Fire as a Restoration Tool" and "Native Plant Conservation Initiative" are some of the themes.

One day, one night and two night field trips will be available to such places as Saguaro National Park, Muleshoe Ranch and the Sea of Cortez.

Registration packets, available May 21, can be had by sending name, address, e-mail address and phone number to: Natural Areas Conference, PO Box 5365, Tucson, Arizona 85703, or: confreg@twp.org



Friends of the Oregon Flora Project

Volunteers of the Oregon Flora Project have been busy. Recent work includes developing an electronic plant Atlas prototype, recording herbarium specimen label data, and compiling portions of the *Oregon Vascular Plant Checklist*.

This fall, the Native Plant Society of Oregon is sponsoring the Friends of the Oregon Flora Project to help raise the funds necessary to produce a new *Flora of Oregon*. Currently, the Friends Committee is looking for the talents of a few enthusiastic folks to help us with grant writing, record keeping, and developing a dynamic fund raising strategy. We plan to initiate a campaign to reach new contributors, both individual and corporate, and secure funding for key staff positions. If you'd like to help, please contact me, Keli Kuykendall at 541.758.8409, kuykendk@peak.org, or write to me at our new Friends address.

Friends of the Oregon Flora Project
P.O. Box 402
Corvallis, OR 97339-0402

NATIVE PLANT SOCIETY OF OREGON MEMBERSHIP FORM

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DUES include monthly *Bulletin* and *Kalmiopsis* when published. Membership is for calendar year. January to December.

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 () Regular..... \$18
 () Family..... \$24
 () Sustaining..... \$50
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CONTRIBUTIONS to NPSO are tax deductible.

Jean Davis Memorial Scholarship Fund \$ _____
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 Fund \$ _____
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Membership is for the calendar year.

New memberships enrolled after September 1 include the following year.

Send completed form and full remittance to:

Jan Dobak, NPSO Membership Chair, 2584 NW Savier St., Portland, OR 97210-2412

Membership in the Native Plant Society of Oregon is open to all.

Membership applications, renewals and change of address (include old address) should be sent to the Membership Chair

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CHAPTER PRESIDENTS

BLUE MOUNTAIN (Pendleton) Jerry Baker..... 58840 Bar M Lane, Adams, OR 97810-3003; (541) 566-3381
 CHEAHMILL Kareen B. Sturgeon..... 1135 Winterwood Loop, McMinnville, OR 97128; (503) 472-0866
 CORVALLIS.....Steve Northway..... 24073 Decker Rd., Corvallis 97333-9510; (541) 929-5375
 EMERALD (Eugene).....Gail Baker & Rhoda Love.....3927 Shasta View St., Eugene, OR 97405-4442; (541) 344-8377
 HIGH DESERT (Bend).....Stu Garrett..... 1501 NE Medical Center Dr., Bend, OR 97701; (541) 389-6981
 KLAMATH BASIN David Lebo..... 642 Front St., Klamath Falls, OR 97601-1914; (541) 850-9770
 MID-COLUMBIA Barbara Robinson..... P.O. Box 682, Mosier, OR 97040; (541) 478-3293
 NORTH COAST.....Christine Stanley..... P.O. Box 201, Cannon Beach, OR 97110-0201; (503) 436-0161
 PORTLAND.....Shane Latimer..... 1605 SE 36th Ave., #3, Portland, OR 97214-5123; (503) 232-7405
 SISKIYOU.....Jennifer Beigel & John Roth.....P.O. Box 1846, Cave Junction, OR 97523-1846; (541) 592-2831
 SOUTH COAST.....Tim Rodenkirk..... 611 N. 12th St., Coos Bay, OR 97420; (541) 269-4696
 UMPQUA VALLEY (Roseburg).....Cheryl Beyer..... P.O. Box 2008, Roseburg, OR 97470; (541)440-4931, ext. 269
 WILLAMETTE VALLEY (Salem).....Walt Yungen..... 2020 Center St. NE, Apt. 32, Salem, OR 97301; (503) 581-9511
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 LEGISLATIVE.....Steve Hinton.....623 NE Brazee St., Portland 97212; (503) 281-4124
 MEMBERSHIP.....Jan Dobak.....2584 NW Savier St, Portland 97210-2412; (503) 248-9242
 BUDGETS AND GRANTS.....Dan Luoma..... 3740 NW Harrison, Corvallis 97330; (541) 752-8860

PUBLICATIONS

BULLETIN EDITOR.....John Robotham..... 117 NW Trinity Pl. Apt. 28, Portland 97209; (503) 226-6371
 KALMIOPSIS EDITOR.....Linda Ann Vorobik..... RR 1 Box 1964, Lopez Island, WA 98261-9528; (360) 468-3188
 WEBMASTER.....Lisa Karst..... 8730 SW Washington Dr., Portland, 97223-6866, (503) 977-9818

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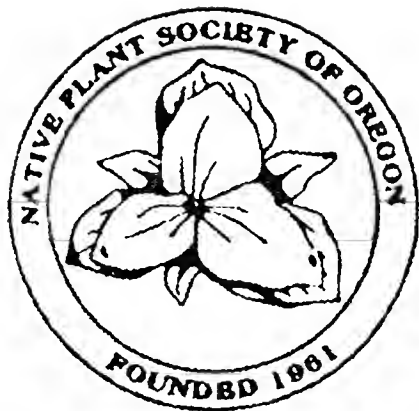


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NATIVE PLANT SOCIETY OF OREGON
World Wide Web: <http://www.NPSOregon.com>
General Business Address: P.O. Box 902, Eugene, OR 97440
or correspond directly with the Officers and Committee Chairs listed on the inside back page.
Membership Inquiries Only: Jan Dobak, 2584 NW Savier St., Portland, OR 97210-2412



***Bulletin* of the Native Plant Society of Oregon**

Dedicated to the enjoyment, conservation, and study
of Oregon's native vegetation

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State News

- July 30 - Aug. 1 **Annual Meeting:** The Emerald Chapter is hosting the 1999 Annual Meeting in the high country of Mackenzie Pass. See April Bulletin for registration material. CORRECTION: THE REGISTRATION FORM HAS TWO DATES LISTED AS REGISTRATION DEADLINE. CORRECT DATE IS JUNE 15.
- Fri. - Sun.
- Aug. 1, Sun. **Board Meeting:** On Sunday morning at the annual meeting.

Chapter News

Blue Mountain

Meeting: No meetings in the summer.

- June 3, Sun. **Field Trip:** Sandy Ott will lead to see the restoration project along McKay Reservoir, a project of McKay Refuge and the Federated Tribes native plant nursery. Meet: NE corner, Pendleton Safeway parking lot, 9 A.M.

Cheahmill

Meeting: No meetings in the summer.

- June 5, Sat. **Field Trip:** Cascade Head Natural Area Preserve. Join trip leader Kareen Sturgeon on a 3 mi. R.T. moderate hike to this Nature Conservancy preserve on the coast north of Lincoln City. Showy wildflowers and spectacular views. Meet: 9:30 A.M., Linfield Ave. entrance to Murdock Hall, Linfield College. Bring lunch. Limit 15, so **pre-registration required**. Call Kareen, 503-472-0866.
- June 13, Sun. **Field Trip:** Sheridan Peak ACEC. Leader: Larry Scofield, retired BLM botanist. A few short hikes, exploring this 299 acre BLM site on the crest of the Coast Range, with a population of *Poa marcida* (weak bluegrass). Meet: 9:30 A.M., Linfield College, south side of Murdock Hall. Bring lunch and water. For more information, call Dave 503-843-4338.
- June 19, Sat. **Field Trip:** Deer Creek County Park. Leader: Dave Hanson. Rare plants, such as

Wyethia, *Brodieae*, etc. should be blooming in the wet prairie and Kincaid's lupine and death camas in the upland. Meet at the park, 10 A.M. For more information, call Dave, 503-843-4338.

Corvallis

- June 14, Mon. **Meeting:** 7:30 P.M. Avery House, Avery Park. Topic TBA. Call 929-5375, for info.
- June 5, Sat. **Field Trip:** Look at sites for *Delphinium pavonaceum* and other species of concern. Survey historical sites for old populations, and new undocumented ones, in Benton County, around Corvallis. Meet: OSU parking lot, southwest of the Beanery, 26th and Monroe, Corvallis, 9 A.M. Call Steve Northway, 541-929-5375, for information.
- June 12, Sat. **Field Trip:** Repeat of June 5 trip, to survey other area sites. Same information.
- June 26, Sat. **Field Trip:** Jackson-Fraizer wetlands. Explore this botanically rich Corvallis wetland via boardwalk. Meet: OSU parking lot, southwest of the Beanery, 26th and Monroe, Corvallis, 9 A.M. Contact Lovern Wilson (leader) at 541-758-3403, or at loverna@peak.org for more information.

Emerald (20th anniversary year)

- Meeting:** No meetings in the summer. We'll have our 20th birthday bash at our September meeting.
- July 12, Sun. **Field Trip:** Iron Mountain bird and wildflower trip with Dan Gleason of Lane County Audubon and Bruce Newhouse of NPSO. Meet: 8 A.M., S. Eugene H.S. parking lot, 19th & Patterson. Bring lunch, water, binoculars, hand lens. Group size limited; **pre-registration required**. Call Diane Horgan, 344-5385.
- July 25, Sat. **Field Trip:** Spirit Lake. Join Oakridge resident Barbro McCree on this trip to wildflower heaven located northeast of Oakridge. Bring sun cream, mosquito repellent, lunch, sturdy shoes, clothing appropriate for the weather. Meet: S. Eugene H.S. parking lot, 8:30 A.M., or Middle Fork Ranger District (formerly Rigdon Dist.) parking lot, off Salmon Creek Rd., 9:30 A.M. More information, Barbro McCree, k_mccree@efn.org or web site "Hiking Trails and Wildflowers" at http://www.efn.org/~k_mccree

High Desert

- Meeting:** No meeting until October.
- June 3, Thurs. **Field Trip:** Pilot Butte State Park. The Butte is a special natural feature in the urban sea of Bend. This half million-year-old volcano has intact native bunchgrass communities over much of its flanks, and springtime wildflowers abound. Unfortunately, in the last 10 years, spotted knapweed, toadflax, cheatgrass, sweetclover and mullein have begun to replace native plants. In cooperation with the State Parks Division and Pilot Butte Partners, we are pulling weeds to stop this invasion in its early stages. Bring gloves, wear sturdy footwear, and meet at the **eastside parking lot at the base of the Butte at 6:30 P.M.**, for an hour or two of

weed pulling. Call Stu Garrett, 389-6981 eves., for more information.

- June 5, Sat. **Field Trip:** The Island. The Island Natural Research Area is a remnant example of our native grasslands. Much of the local high desert probably looked like this before grazing, farming and urbanization took over. Unfortunately, even in this barely-grazed area, exotic weeds are a problem. NPSO will assist the BLM in removing medusahead from several small infested areas. This is a unique opportunity to visit the area, since the Island Research Natural Area is closed to casual hiking. We may see **rattlesnakes** so long pants and boots are encouraged. Call trip leader Stu Garrett, 389-6981 eves., for details.
- June 12, Sat. **Field Trip:** Alder Springs Thistle Attack and Nature Hike. One of the most dramatic canyons in central Oregon is Alder Springs on Squaw Creek. Exotic teasels are starting to take over here and we will cooperate with the USFS Crooked River Grasslands and the Portland Chapter of NPSO to eliminate it. Be ready for a combination work day and fun hike. Bring gloves, a weed tool, and be prepared to encounter **rattlesnakes**. Long pants and boots are advised. Call Stu Garrett, 389-6981 eves., for details.
- June 15, Tues. **Field Trip:** Metolius Basin Natural History. USFS botanist/ecologist, Katie Grenier, will take us on an easy 2 hr. hike through the spectacular pine forest of the Metolius Basin. Old-growth pine, pristine riparian areas, and wildflowers will be highlighted, but we will also learn about the weedy invasion of this area. Meet: USFS Sisters Ranger Station parking lot, 9 A.M. Call Katie, 388-2715, for details.
- July 13, Tues. **Field Trip:** Oregon Atlas Project Survey -- Trout Creek Swamp. This will be one of our surveys to look at previously poorly-botanized areas, in order to develop information for the Oregon Plant Atlas Project. We will take several hours to key-out and identify plants in this marsh in the Sisters Ranger District of the Deschutes NF. All are welcome. Bring knee or hip boots. Meet: Deschutes NF Supervisor's Office parking lot, near Pilot Butte, 8:30 A.M., or Sisters Ranger District, 9 A.M. Call Katie Grenier, 388-2715, for details.
- July 17, Sat. **Field Trip:** Glaze Meadow and Black Butte Old-Growth Stands. This area, at the foot of Black Butte, is one of the most scenic in the Deschutes NF. We will see the rare Peck's penstemon, hike through old-growth ponderosa pine stands and explore the now ungrazed meadows. Beavers use the riparian areas along Indian Ford Creek. Maret Pajutee, USFS ecologist for the Sisters District, will tour us through the area and tell about restoration plans. Easy 4 mi. walk. Meet: Pilot Butte in Bend, 8:30 A.M., or Sisters Ranger District parking lot, 9 A.M. Call Stu Garrett, 389-6981 eves.
- July 18, Sun. **Field Trip:** Juniper Hills Preserve. The Nature Conservancy has recently acquired an 18,000 acre preserve east of Post, Oregon, along the Crooked River. The preserve protects native grasslands, ponderosa forests and juniper woodlands. We will help to control young, invasive junipers that are expanding into grasslands ecosystems. Call Stu Garrett, 389-6981 eves., for details.
- July 24, Sat. **Field Trip:** Canyon Creek Meadows. Another Cascades classic! Reid Schuller, a superb botanist and probably the most knowledgeable person on the wildflowers of these meadows, will lead this 4 mi. R.T. hike, with 500 ft. elev. gain. The meadows

are located in the Mt. Jefferson Wilderness at the base of Three-Fingered Jack. Meet: **USFS Sisters Ranger District parking lot in Sisters, 9 A.M. (NOT IN BEND)**. Limit 12, due to wilderness travel. Call Reid, 317-0199 days, or 317-1901 eves., for **pre-registration. Don't just show up!**

Aug. 14, Sat. **Field Trip:** Broken Top Volcano. This is our annual trek to view the spectacular scenery and alpine wildflowers in the high Cascades west of Bend. 6 mi. R.T., moderate to strenuous hike, with 1700 ft. elev. gain. Mostly off-trail hiking through the Three Sisters Wilderness, so number limited to 12. **Pre-registration required.** Call trip leader Stu Garrett, 389-6981 eves., to sign up.

Aug. 21, Sat. **Field Trip:** Three-Fingered Jack area. Difficult, 12 mi. R.T. hike up toward Three-Fingered Jack, with a short, steep, cross country trek downhill, to connect with a loop trail that will pass three nice lakes. Bring a swimsuit and we can cool off in the last lake if the weather is warm. Meet at the Bend, J.C. Penny parking lot, 9:30 A.M. Wilderness travel limits trip to 12, so call Sierra Club trip leader, Alison Hamway, 382-2035, for details and **registration.**

Klamath Basin

June 8, Tues. **Meeting:** 7 P.M. Room 219, Owens Hall, OIT campus, Klamath Falls. Last meeting of the academic year. Speaker TBA. Call David Lebo, 883-8393, for information.

Mid-Columbia

June 2, Wed. **Meeting:** 7:30 P.M. Discovery Center Theatre, The Dalles. Bruce Taylor will present a program on the Oregon Wetlands Joint Venture to acquaint us with the project's aims and accomplishments.

June 6, Sun. **Field Trip:** Collect wildflower seeds for the grounds of the Columbia Gorge Discovery Center, have lunch at the Center, then spread the seeds. Collect some for yourself too! Meet: Discovery Center, 9:30 A.M. Call Barbara Robinson, 541-296-5334, for more information.

June 19, Sat. **Field Trip and Weed Pull:** See a beautiful Nature Conservancy preserve that is normally not accessible to the public, and help pull knapweed. Meet: Goldendale, 9:30 A.M., caravan 30 min. east to this 400 acre oak/grassland canyon preserve. Call Lynn Cornelius, 360-263-1667, to sign up and get details on mtng. place. Limit 25.

July 7, Wed. **Meeting:** 6:30 P.M. Our annual potluck at Jerry Igo's beautiful home in the heart of the Columbia Gorge's oak woodlands, 6 mi. SE of Mosier. For directions, write Jerry (P.O. Box 603, Mosier, OR 97040) or call Barbara Robinson (541-296-5334).

North Coast

For information on the North Coast Chapter, call Christine Stanley, 503 436-0161.

Portland

- June 5, Sat. **Field Trip:** Saddle Mt. One of the most talked-about trails in Oregon, for its wildflowers. Trip leader Christine Stanley takes us on this moderate 5 mi. R.T. climb. Leave 8:30 A.M., east end of Cedar Hills Shopping Center parking lot. (Westbound from Portland on Hwy. 26, take exit 69-B, follow signs to Cedar Hills. Northbound on Hwy. 217, take exit to Hwy. 26 E/Cedar Hills, follow signs to Cedar Hills). **Trip limit is 12, so pre-registration is required.** To register, call Greg Stone, 652-1531, **after 23.**
- June 8, Tues. **Meeting:** 7 P.M. First United Methodist Church, 1838 Jefferson St., Portland. Mike McKeag will speak on "Field Trips and the Diversity of Settings in Oregon."
- June 12, Sat. **Field Trip:** See High Desert Chapter.
- June 19, Sat. **Field Trip:** See Mid-Columbia Chapter.
- June 20, Sun. **Field Trip:** Bald Mt. Along with great views of Mt. Hood, trail should lead to the spectacular *Lilium washingtonianum*, *Calochortus subalpinus*, plus the rhodies and beargrass should be in show as well. Moderate, 6 mi. R.T., with 800 ft. elev. gain. Trip leader: Beth Magnus. Meet: Gateway/99th Ave. Park & Ride, southeast corner of parking lot. (Take exit 7 off I-84, turn immediately right onto 99th Ave.) Leave 8:30 A.M. **Pre-registration required.** Call Beth, 226-7919.
- July 11, Sun. **Field Trip:** Sheep Canyon near Mt. St. Helens. Details later.

Siskiyou

Officers: Newly elected officers are: Jim Duncan and Elaine Plaisance, co-presidents; Susan Nyoka, vice president.

Meeting: No meetings until September.

- June 5, Sat. **Field Trip:** Woodcock Fen. Led by Mike Anderson. Located on the west side of the Illinois Valley, this BLM-protected fen on Woodcock Mountain is home to the largest known community of the extremely rare purple large-flowered rush lily. We hope to see it at the peak of its bloom, along with many other sensitive species of serpentine habitats. Easy 2 mi. hike. Meet: 9 A.M., Illinois Valley Visitor Center, 201 Caves Hwy., Cave Junction.
- June 13, Sun. **Field Trip:** Canyon Creek. Led by Rich Nawa, 541-592-4459. Moderately strenuous 3 mi. off-trail hike to old-growth grove of fir, pine and cedar. Four mi. loop hike includes open serpentine ridges forested with Jeffrey pines. About 1000 ft. elev. Drop. Meet: 8 A.M., Illinois Valley Visitor Center, 201 Caves Hwy., Cave Junction. Wear long pants.
- June 24 - 25, Thurs. - Fri. **Field Trip:** Shasta Costa/Indigo. Led by Rich Nawa, 541-592-4459. Overnight car camping trip to explore old-growth groves along Shasta Costa Creek and Indigo Creek. Leave 9:30 A.M. on 24th, return 5 P.M. on 25th. **Pre-registration required.** Call the Siskiyou Project, 592-4459.
- June 26, Sat. **Field Trip:** King Mountain (in the Cascades east of Wolf Creek). Led by Eleanor Pugh and Don Heinze. See sub-alpine wildflowers in this distinctive BLM botanical

area. Easy 1 mi. hike. Meet: 10 A.M., in front of Wolf Creek Store in Wolf Creek. Call Eleanor between 7 and 9, at 541-866-2665.

- June 27, Sun. **Field Trip:** Kerby Peak. Led by Carl Summers. Strenuous 6 mi. R.T. hike to visit a seldom visited and unique alpine vegetation. Great views. Bring walking stick and water. Meet: 8 A.M., Selma Market.
- July 3, Sat. **Field Trip:** Mineral Fork. Led by Rich Nawa, 541-592-4459. 8 A.M. to 5 P.M. Call for meeting place. Moderately strenuous off-trail hike to Mineral Fork roadless area in the Chetco River watershed.
- July 4, Sun. **Wildflower Show:** In the gazebo near the band shell in Lithia Park in Ashland. The show begins when the parade is over and continues into the afternoon. For more information, call Elaine Plaisance or Jim Duncan, at 541-482-7629.
- July 10 - 11, Sat. - Sun. **Field Trip:** Youngs Valley. Led by Ron Pio. Moderate to strenuous hike, with overnight camp. Possible off-trail hiking and side hikes. Depending on the group, return 7 P.M. July 11. **Pre-registration required.** Call the Siskiyou Project, 541-592-4459.
- Aug. 7, Sat. **Field Trip:** Mt. Elijah/Bigelow Lake, Siskiyou Mountains (just south of Oregon Caves). Late summer wildflowers, wildlife, evening/night hike. Bring sack supper, flashlight, water, jacket. Leaders: Maria Ulloa (541-471-6528, wildflowers); Mary Bell (wildflowers); Lee Webb (541-471-6500, wildlife). Meet: Illinois Valley Visitor Center, 201 Caves Highway, Cave Junction, 4 P.M., return by 11 P.M. Moderate to difficult hike.
- Aug. 8, Sun. **Field Trip:** Rough and Ready, once again. Led by Mike Anderson. Return to Rough and Ready, this time to a low-water creek crossing to a Pleistocene bench (possibly the result of a cataclysmic glacial event). Here we'll visit an unusual, flat, narrow California pitcher plant fen, which meanders across the bench. The fen is home to the sensitive and seldom seen Oregon willow herb, which, along with other attributes, has the cutest darn stigma you'll ever see! Meet: Illinois Valley Visitor Center, 201 Caves Highway, Cave Junction, 9 A.M. Easy, 3 mi. hike.
- Aug. 14, Sat. **Field Trip:** Red Mountain (in the high Siskiyou Mountains). Led by Barbara Mumblo (541-899-1842). Enjoy alpine wildflowers and the cool weather at high elevations in late summer. Meet: 9 A.M., USFS Star Ranger Station, 7 mi. south of Ruch on upper Applegate Rd.
- Aug. 15, Sun. **Field Trip:** Snorkeling the East Fork Illinois River, 1 - 5 P.M. Led by Rich Nawa. Instruction for adults and children about snorkeling techniques in small streams. Learn to identify juvenile (3-8 inch) rainbow trout, coho salmon and cutthroat trout by their distinctive markings, behavior and habitat selection. Bring a mask, snorkel, sneakers and wet suit if you have one. Meet at the Siskiyou Project office, 9335 Takilma Rd.

South Coast

For information on the South Coast Chapter, call Bruce Rittenhouse, 541-888-9328.

Umpqua Valley

June 10, Thur. **Meeting:** 6:30 P.M. Kanipe Memorial Park, Elkhead Rd. Annual potluck dinner. Main dish provided, bring side dishes and dessert. Call Cheryl Beyer, for information.

Willamette Valley

Meeting: No meetings in the summer.

William Cusick

Meeting: No meetings in the summer.

IMPORTANT NOTE TO FIELD TRIP PARTICIPANTS

Field trips take place rain or shine, so proper dress and footwear are essential. Trips may be strenuous and/or hazardous. Participation is at your own risk. Please contact the trip leader or chapter representative about difficulty, distance, and terrain to be expected on field trips. Bring water and lunch. All NPSO field trips are open to the public at no charge (other than contribution to carpool driver) and newcomers and visitors are always welcome.

NOTICE TO FIELD TRIP CHAIRS AND LEADERS

The Forest Service and other agencies have set policies limiting group size in many wilderness areas to 12. The reason is to limit human impacts on these fragile areas. Each group using wilderness areas should be no larger than 12.

POSTAL NOTICE

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Guidelines for contributors to the Bulletin

The NPSO Bulletin is published monthly as a service to members and the public.

All kinds of contributions are welcome. **Copy is due by the 10th of the month.**

CREDITS: Identify author and affiliation. If it's not original, cite source and date.

ILLUSTRATIONS: Line drawings and high contrast black-and-white prints are useable.

Contact editor for current needs, or send illustrations with the article.

BOTANICAL NOMENCLATURE: Follow "Flora of the Pacific Northwest" by Hitchcock, or "The Jepson Manual," where appropriate.

FORMAT: Submissions can be in any form. For further details, consult editor.

ORIGINALS: Submissions are not returned, unless requested.



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We Welcome New Members

Joining 1/1/99 - 4/28/99

Blue Mountain

Paul P. Daniello

Cheahmill

Ann Barnes

John and Janet Nybakke

Corvallis

David Birkes

Clifton Cooper

Larry Davisson

Pat Gallagher

Gaylee Goodrich

Clifford H. Heselton

Doug Maguire

Louise Parsons

Kristin Skinner

Rebecca Thompson

Emerald

Rob Castleberry

Ella M. Crow

Diane and Louis English

Cathy Miner

Nola J. Shurtleff

Lisa Sieracki

Margaret Smith Staines

Sandra Stewart

Josephine Von Hippel

Skye Weintraub

High Desert

Cora Gangware-Ashton

Jeff and Terri Grimm

Marjorie Kocher

KaRene Lehman

Patty Meehan

William Allister Noble

Hilary Ort

Pat Phillips

Renee and Smith Roufs

Klamath Basin

James F. Dorr

Ann duPont

Karen Ruiz

Ron Swisher

Mid-Columbia

Dennis M. Carlson

Lynn Roberge

Scott Smith

North Coast

Donna Sheldon

Portland

Lisa Albert

Marylin Anderson

E.A. Berke

Jennifer Boe

Bruce Frazier

Jeff Handley

Scott and Marge Hayes

Bill Jablonski

Dave and Colleen Jannuzzi

Carolyn Jenkins

Ariana Kramer

John F. Krotchko

Robin Lee

Mary Ann and Oliver Massengale

Linda McDonnell

Claudia McNellis

Susan Nelson

Peggy O'Neill

Dan and Nancy Padberg

R.A. Rasmussen

Deborah Ratzloff

Phyllis Riggs

Fay Rowland

Gary Rule

Jennifer Shipley

Sharon Stanton

Pete Stocking

Erleen Whitney

Siskiyou

William H. Holmes
Austin Kampmann
Bob Quaccia
Cindy Roche
Carol Weigler

Willamette Valley

Ryan Morrow
Mary Helen Socolofsky
John and Carole Stockfleth

William Cusick

Jean Wood

At Large

Pat Grace
Jerry Nyberg
Timothy S. Ross

**WILBUR BLUHM AND KENTON
CHAMBERS CHOSEN
NPSO FELLOWS**

The NPSO Fellows Committee and the Board of Directors have chosen Wilbur Bluhm and Kenton L. Chambers to become Fellows of the Native Plant Society of Oregon, our organization's highest honor. The awards will be presented at this summer's Annual Meeting.

Wilbur Bluhm was born in Seward, Nebraska and took his Bachelor's Degree at the University of Nebraska and his Master's at Purdue. He completed further graduate work at the University of Illinois and Oregon State University. In 1957 Wilbur joined the staff of OSU's Extension Service where he provided information for landscape architects, nursery persons, plant growers and the public. He retired in 1984 as Chairman of the Salem staff. Wilbur was instrumental in organizing the Willamette Valley Chapter of NPSO in

1977. This was one of the earliest chapters to form outside Portland.

Wilbur has long championed the use of native species for landscaping and restoration. He has made numerous presentations on this subject to such groups as the International Plant Propagators' Society and the Perennial Plant Association. He has also worked with the Nature Conservancy, the Oregon Garden Project and the Berry Botanic Garden. Recently he has taught taxonomy classes at Chemeketa Community College. Wilbur was nominated for the NPSO Fellows award by Walt Yungen on behalf of the Willamette Valley Chapter of NPSO.

Kenton L. Chambers' contribution to botany, within and outside Oregon is well known. A few of his accomplishments are: Professor of botany, Herbarium Curator, taxonomic researcher, major professor for an important cadre of graduate students, earliest compiler of Oregon's rare plant list, senior member of the Oregon Flora Project, and preparer of treatments of a good percentage of the Asteraceae, Liliaceae and other families for the Vascular Plant Checklist.

Ken was born in Los Angeles and attended Whittier College and Stanford University. His first teaching post was at Yale. Ken came to Oregon State University in 1960 where he became professor of botany and Herbarium Curator. Agrostology, one of the new courses Ken developed at OSU became one of his most popular. Ken served as major professor for 16 Ph.D. and 14 Masters students. Some of the genera worked on by his students were Claytonia, Aster, and Artemisia. He contributed to many manuals and floras such as the Jepson Manual and Flora of North America. Ken retired from OSU in 1990 with Emeritus status but can still be found in the Herbarium most days, working on the new Flora of

Oregon. Ken was nominated by Rhoda Love of Emerald Chapter.

We hope you will attend the Annual Meeting, July 30 to August 1, and be present when these two very important Society members receive their awards.

NPSO Fellows Committee: Veva Stansell,
Shane Latimer, Rhoda Love

Carex Atlas Ready

The Carex Working Group is pleased to announce the publication "Atlas of Oregon Carex". This publication, which documents the results of nearly seven years of sedging in Oregon, is the first occasional paper of the Native Plant Society of Oregon. The "Atlas of Oregon Carex" has 128 location maps, one for each Carex taxon in the state of Oregon. Also included are a synonymy, fun facts about sedges, a history of the project, and Oregon geography maps. Order your copy by sending a \$5 check (made payable to NPSO) to: Atlas of Oregon Carex, c/o Keli Kuykendall, 4550 S.W. Nash Ave., Corvallis OR 97333-9301

Botanists Wanted to Backpack into the North Cascades

The Methow Valley Ranger District is looking for some serious botanists who are willing to backpack into some of the most beautiful country in the PNW to survey for TES plants and start a plant inventory of those areas. As a volunteer, you will be entitled to \$15 per day subsistence; shuttle service between your car and the trailhead if needed; and a complimentary backpack plant press as our thanks. We will provide maps, air photos, plant lists, and an R6-TES plant guide. Some areas we are considering for survey in the Paysaten Wilderness are: Crystal Lakes and Sheep Mtn. Areas off the Larch Creek trail #502, 15 to 20 mile hike in; Bald Mtn., Beaver Creek, Rammel Mtn., Apex Pass, all off the Andrews Creek trail #504, 15 to 20 mile hike in; Goat Lakes area, off the Pacific Crest trail N #2000, a 17 mile hike in. For more information, contact Therese Olson, Methow Valley Ranger District, (509) 996-4019, or e-mail: tohlson/r6pnw_okanogon@fs.fed.us

Bulletin Editor Needed

The editor of this publication plans to resign. Anyone interested in becoming editor is urged to contact him through any of the usual means of communication.

NPSO State Board Meeting Highlights

April 17, 1999, Deschutes County Library, Bend. Meeting hosted by High Desert Chapter. Welcome by Stu Garrett.

The meeting was called to order by acting President Mike McKeag. Present: Mike McKeag, Rhoda Love, Gail Baker, Marcia Cutler, Bruce Newhouse, Walt Yungen, Jan Dobak, Dave Dobak, Bruce Barnes, Stu Garrett, Steven Jessup, Dan Luoma. Visitors: Ken and Barbara Robinson

Oregon Flora Project: Rhoda reported that Scott Sundberg and Linda Hardisan had a bouncing baby boy, Matthew William Sundberg on Sunday April 11. Treatments of the monocots are moving forward. Henny will publish an article on the genus *Pyrola* in the June Oregon Flora Newsletter.

Friends of the Oregon Flora: Rhoda reported that present active members of the committee are Keli Kuykendall, Esther McEvoy and Rhoda Love. Additional members are needed. At present we need a person with artistic talent and building skills to design a standing display. Meetings have been taking place monthly. As of April, approximately \$6,000 had been donated in response to the Friends brochure.

West Side and East Side Conservation Chairs: Steve Jessup and Stu Garrett have been very actively involved in conservation issues in their areas. Among other projects, Steve has been working on Rough & Ready and Mt. Ashland; Stu has been working on the Oregon ORV Trail.

Membership Committee: Jan Dobak reported that the new membership roster is in the mail. If you did not order a copy you can do so now;

the cost is \$2.00 in person; \$3.00 mailed first class.

Nominating Committee: The Dobaks reported that the following officers for 1999-2000 were elected and will be installed at the Annual Meeting: Bruce Newhouse, president; Mike McKeag, vice president; Rhoda Love, secretary; Martha Apple, treasurer; and Veva Stansell, Esther McEvoy and Dave Dobak, board members.

Internet Committee: Mike McKeag reported that Judy Castle, Portland Chapter Treasurer, has indicated an interest in maintaining the NPSO web site. She may wish to upgrade and overhaul the site. In response to a question, Mike responded that various large-memory items such as photo archives could be handled with linkages to University and other organization files.

Annual Meeting: Marcia Cutler, Annual Meeting Chair, reported that Emerald Chapter continues to work on the 1999 AM at 17-acre White Branch Youth Camp, McKenzie River Highway. The Board expressed appreciation of Marcia's work. It was asked if alcohol was permitted at White Branch; Marcia responded that it was not, nor is smoking. In the year 2000 High Desert Chapter will host the AM.

Forest Products Policy: Gail Baker reported that we are moving forward on this. Watch for e-mail from Gail and Bruce Newhouse.

Carex Atlas: Bruce Newhouse reported that OSU will print 300 copies of the new *Carex* Atlas in April. Selling price will be \$5.00 each. Atlas includes 24 pages of maps, and will be the first Occasional Paper of NPSO.

NPSO Brochure: There is no present chairperson, however, Dave Dobak, Dan Luoma, Rhoda Love, Stu Garrett and others have had e-mail discussion about content and

design. Rhoda will propose some text and Dan Luoma will design the three back panels.

Senate Bill 1111: This new bill would repeal the SASE (State Endangered Species Act of 1987), introduced and fought for by NPSO. We will be following it closely.

Field Research Grants Committee: Dan Luoma reported that we generally award 3 grants per year of \$750 each, but have received 4 very high quality proposals and Dan recommends we fund 4 this year. (1. *Darlingtonia* pollination, 2. Use of fire in maintaining Cascades meadows; 3. Floristic study of *Brodiaea*; 4. Kangaroo Roadless Area.) Dave Dobak did a quick budget analysis: One will be a Leighton Ho grant, and another will come from the R&E fund. Conclusion: we should be able to afford four. Action: Moved Yungen, seconded Barnes, that we fund four field research grants this season. Passed unanimously.

Thanks to Mike McKeag for filling in as Acting President. Thanks to Stu Garrett and High Desert Chapter for hosting the meeting. Next Meeting: The Annual Meeting, July 30-Aug. 1. White Branch Camp.

Rhoda Love, Acting Secretary

Eastside Conservation Chair Needed

This position involves keeping an eye on conservation concerns east of the Cascades, and, where appropriate, writing letters and making telephone calls. Stu Garrett has done this work for a number of years and interested members should contact him at 541-389-6981 evenings.

NPSO Items for Sale

Oregon's Rare Wildflower Poster depicts Punchbowl Falls and three of the Columbia River Gorge's endemic wildflowers. Text on the back describes the natural history of the Gorge and the mission of the NPSO. Available from Stu Garrett, 21663 Paloma Dr., Bend, OR 97701 (541) 389-6981. Individual may order posters at \$12 each, plus \$3 per order for shipping. Posters are mailed in tubes. Chapter treasures may contact Stu for wholesale prices to chapters.

NPSO's Original Wildflower Poster depicts 13 Oregon wildflowers in a striking artist's rendition. Soon to be a collector's item. Available from Stephanie Schulz, 84603 Bristow Rd., Pleasant Hill, OR 97455, \$5 each, plus \$3 per order for shipping. Posters are mailed in tubes.

Conservation and Management of Native Plants and Fungi: Proceedings of an Oregon Conference on the Conservation and Management of Native Vascular Plants, Bryophytes, and Fungi. Edited by Thomas N. Kaye, Aaron Liston, Rhoda M. Love, Daniel L. Louma, Robert J. Meinke, and Mark V. Wilson, with a foreword by Reed F. Noss. Available from NPSO Conference Proceedings, 804 Jefferson Ave., La Grande, OR 97850. (541) 962-7749. SALE PRICE: \$5, plus \$2.50 for shipping.

NPSO Membership Directory lists names, addresses, phone numbers of NPSO members (April 1999). Available for \$3 from Jan Dobak, 2584 Savier St., Portland, OR 97210.

NATIVE PLANT SOCIETY OF OREGON MEMBERSHIP FORM

Name _____
 Address _____
 City _____
 State _____ Zip+4 _____
 Phone _____
 E-Mail _____
 Chapter (if known) _____

DUES include monthly *Bulletin* and *Kalmiopsis* when published. Membership is for calendar year. January to December.

() New () Renewal
 () Student..... \$12
 () Regular \$18
 () Family..... \$24
 () Sustaining \$50
 () Patron \$100
 () Life Membership \$500

Is this a change of address?

If so, please write your old address here:

() Subscription Only (*Bulletin* & *Kalmiopsis*)..... \$18
*Only for those who wish to subscribe,
 but do not want to have full membership status.*

CONTRIBUTIONS to NPSO are tax deductible.

Jean Davis Memorial Scholarship Fund \$ _____
 Leighton Ho Memorial Field Botany Award
 Fund \$ _____
 Rare and Endangered Plant Fund \$ _____

Please make checks for dues and contributions payable to:

NATIVE PLANT SOCIETY OF OREGON

Membership is for the calendar year.

New memberships enrolled after September 1 include the following year.

Send completed form and full remittance to:

Jan Dobak, NPSO Membership Chair, 2584 NW Savier St., Portland, OR 97210-2412

Membership in the Native Plant Society of Oregon is open to all.

Membership applications, renewals and change of address (include old address) should be sent to the Membership Chair

STATE OFFICERS

DIRECTORS (to 6/99).....Bruce Barnes, Bruce Newhouse, Kareen Sturgeon
 DIRECTORS (to 6/98).....Dan Luoma, Ben Fawver, Steven Jessup
 PRESIDENT.....Position vacant.....
 IMMEDIATE PAST PRESIDENT.....Michael Igo..... PO Box 603, Mosier, OR 97040-0603
 VICE PRESIDENT.....Michael McKeag.....7461 SW 184th Pl., Aloha, OR 97007-5740; (503) 642-3965
 SECRETARY.....Heather Laub..... 6780 Highway 35, Mt. Hood, OR 97041-9725; (541) 352-6002
 TREASURER.....Jean France.....5877 SW Kennycroft Way, Lake Oswego, 97035-7023; (503) 639-0741

CHAPTER PRESIDENTS

BLUE MOUNTAIN (Pendleton) Jerry Baker 58840 Bar M Lane, Adams, OR 97810-3003; (541) 566-3381
 CHEAHMILL Kareen B. Sturgeon 1135 Winterwood Loop, McMinnville, OR 97128; (503) 472-0866
 CORVALLIS.....Steve Northway..... 24073 Decker Rd., Corvallis 97333-9510; (541) 929-5375
 EMERALD (Eugene).....Gail Baker & Rhoda Love3927 Shasta View St., Eugene, OR 97405-4442; (541) 344-8377
 HIGH DESERT (Bend).....Stu Garrett 1501 NE Medical Center Dr., Bend, OR 97701; (541) 389-6981
 KLAMATH BASIN David Lebo 642 Front St., Klamath Falls, OR 97601-1914; (541) 850-9770
 MID-COLUMBIA Barbara Robinson..... P.O. Box 682, Mosier, OR 97040; (541) 478-3293
 NORTH COAST.....Christine Stanley..... P.O. Box 201, Cannon Beach, OR 97110-0201; (503) 436-0161
 PORTLAND.....Shane Latimer..... 1605 SE 36th Ave., #3, Portland, OR 97214-5123; (503) 232-7405
 SISKIYOU.....Jim Duncan & Elaine Plaisance692 B St., Ashland, OR 97520-2026; (541) 482-7629
 SOUTH COAST.....Tim Rodenkirk..... 611 N. 12th St., Coos Bay, OR 97420; (541) 269-4696
 UMPQUA VALLEY (Roseburg).....Cheryl Beyer..... P.O. Box 2008, Roseburg, OR 97470; (541) 440-4931, ext. 269
 WILLAMETTE VALLEY (Salem).....Walt Yungen..... 2020 Center St. NE, Apt. 32, Salem, OR 97301; (503) 581-9511
 WM CUSICK (La Grande).....Frazier Nichol c/o Dick Kenton, 1805 U Ave., La Grande, OR 97850; (541) 963-7870

STATE COMMITTEE CHAIRS

EDUCATION.....Jerry Igo..... P.O. Box 603, Mosier, OR 97040
 RARE AND ENDANGERED.....Bruce H. Rittenhouse.. 550 Fillmore, Coos Bay, 97420-2811; w:756-0100;h:(541) 888-9328
 CONSERVATION, EAST SIDE.....Stu Garrett..... 1501 NE Medical Center Dr, Bend 97701; (541) 389-6981
 CONSERVATION, WEST SIDE.....Steven L. Jessup 208 Harrison St., Ashland, OR 97520-2920; (541) 552-6804
 LEGISLATIVE.....Position vacant
 MEMBERSHIP.....Jan Dobak.....2584 NW Savier St, Portland 97210-2412; (503) 248-9242
 BUDGETS AND GRANTS.....Dan Luoma.....3740 NW Harrison, Corvallis 97330; (541) 752-8860

PUBLICATIONS

BULLETIN EDITOR.....John Robotham..... 117 NW Trinity Pl, Apt. 28, Portland 97209; (503) 226-6371
 KALMIOPSIS EDITOR.....Linda Ann Vorobik..... RR 1 Box 1964, Lopez Island, WA 98261-9528; (360) 468-3188
 WEBMASTER.....Lisa Karst..... 8730 SW Washington Dr., Portland, 97223-6866, (503) 977-9818

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and membership requests to:
Native Plant Society of Oregon
Jan Dobak, Membership Chair
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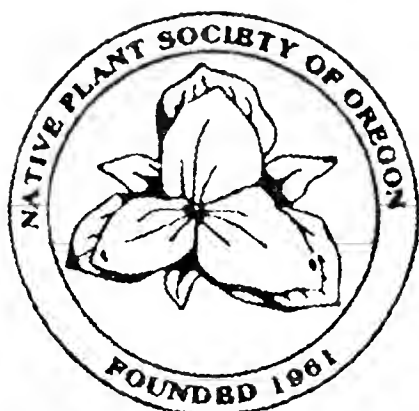
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NATIVE PLANT SOCIETY OF OREGON
World Wide Web: <http://www.NPSOregon.org>
General Business Address: P.O. Box 902, Eugene, OR 97440
or correspond directly with the Officers and Committee Chairs listed on the inside back page.
Membership Inquiries Only: Jan Dobak, 2584 NW Savier St., Portland, OR 97210-2412



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of Oregon's native vegetation

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State News

- July 30 - Aug. 1 **Annual Meeting:** The Emerald Chapter hosts the 1999 Annual Meeting in the high country of McKenzie Pass. Registration material in April Bulletin. For pictures/notes of meeting site, check our website: <http://www.NPSOregon.org/annual/annualmt.htm>
Fri. - Sun. NOTE: There will be a construction project on Hwy. 20, east of Sweet Home (between House Rock and Lava Lake) from June 7 to Oct. 28, with 20 min. delays predicted. Be aware of this when planning your route to the Annual Meeting.
- Aug. 1, Sun. **Board Meeting:** On Sunday morning at the annual meeting.

Chapter News

Blue Mountain

Meeting: No meetings in the summer.

Cheahmill

Meeting: No meetings in the summer.

- July 3, Sat. **Work Party:** We'll be planting trees at the new Native Plant Garden at the McMinnville Public Library, 2nd and Adams St. Meet at the library, 9 A.M. Call Mary Bryant, 434-5060, or Ruth Crawford, 434-9843, if you plan to attend or have questions.
- July 10, Sat. **Work Party:** We'll be planting shrubs and perennials at the McMinnville Library Native Plant Garden. Meet at the library, 9 A.M. Call, as above.
- July 24, Sat. **Work Party & Field Trip:** Deer Creek County Park. After we tour the site where *Dichelostemma congestum*, *Tritelia hyacinthina*, and *Zygadenus venenosus* may be blooming, we will harvest *Deschampsia cespitosa* (tufted hairgrass) for seed. Meet at the park, 10 A.M. For more information, call Dave, 503-843-4338.

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Corvallis

- July 12, Mon. **Meeting and Potluck Dinner:** 7:30 P.M. Avery House, Avery Park, Corvallis. Discuss conservation issues and current projects in the Willamette Valley, on the porch of Avery House, weather permitting. Bring some tasty food to share. Call Steve Northway, 541-929-5375, for more information.
- July 17, Sat. **Field Trip:** Iron Mountain. Spectacular, botanically rich area west of Santiam Pass. Forest and meadow wildflowers will be the main attractions. 4-5 mi., moderate hike. Meet: OSU parking lot, SW of the Beanery, 26th and Monroe, Corvallis, 9 A.M. Call Dan Luoma, 541-752-8860, for more information.

Emerald (20th anniversary year)

Officers: Newly elected officers are: Marcia Cutler, president; Nick Otting, vice president; Dave Predeek, secretary; Phil Warner, treasurer.

Meeting: No meetings in the summer. We'll have our 20th birthday bash at our September meeting.

- July 3, Sat. **Field Trip:** Joint trip with Willamette Valley Chapter, which see.
- July 11, Sun. **Field Trip:** Iron Mountain bird and wildflower trip with Dan Gleason of Lane County Audubon and Bruce Newhouse of NPSO. Trip begins at 8 A.M. Bring lunch, water, binoculars, hand lens. Group size limited; **pre-registration required**. Call Diane Horgan, 344-5385.
- July 25, Sun. **Field Trip:** Spirit Lake. Join Oakridge resident Barbro McCree on this trip to wildflower heaven, located NE of Oakridge. Bring sun cream, mosquito repellent, lunch, sturdy shoes, clothing appropriate for the weather. Meet: S. Eugene H.S. parking lot, 8:30 A.M., or Middle Fork Ranger District (formerly Rigdon Dist.) parking lot, off Salmon Creek Rd., 9:30 A.M. For more information, contact Barbro McCree, k_mccree@efn.org or web site "Hiking Trails and Wildflowers" at http://www.efn.org/~k_mccree
- Aug. 19, Thurs. **Herbarium Work Party:** 9 A.M. - Noon. LCC Botany Room, 109 Science Building, main campus. Each year a group of students and others get together to mount the pressed specimens collected throughout the year. Learn how to press and mount herbarium specimens and take accurate collection data. Gail Baker will give instruction and guidance. For more information, contact Gail at 747-4501x2085, or bakerg@lanecc.edu

High Desert

Meeting: No meeting until October.

- July 13, Tues. **Field Trip:** Oregon Atlas Project Survey -- Trout Creek Swamp. This will be one of our surveys to look at previously poorly-botanized areas, in order to develop information for the Oregon Plant Atlas Project. We will take several hours to key-out and identify plants in this marsh in the Sisters Ranger District of the Deschutes NF. All are welcome. Bring knee or hip boots. Meet: Deschutes NF Supervisor's

Office parking lot, near Pilot Butte, 8:30 A.M., or Sisters Ranger District, 9 A.M. Call Katie Grenier, 388-2715, for details.

- July 17, Sat. **Field Trip:** Glaze Meadow and Black Butte old-growth stands. This area, at the foot of Black Butte, is one of the most scenic in the Deschutes NF. We will see the rare Peck's penstemon, hike through old-growth ponderosa pine stands, and explore the now ungrazed meadows. Beavers use the riparian areas along Indian Ford Creek. Maret Pajutee, USFS ecologist for the Sisters District, will tour us through the area and tell about restoration projects. East, 4 mi. walk. Meet: Pilot Butte in Bend, 8:30 A.M., or Sisters Ranger District parking lot, 9 A.M. Call Stu Garrett, 389-6981 eves.
- July 18, Sun. **Field Trip:** Juniper Hills Preserve. The Nature Conservancy has recently acquired an 18000-acre preserve, east of Post, Oregon, along the Crooked River. The preserve protects native grasslands, ponderosa forests and juniper woodlands. We will help to control young, invasive junipers that are expanding into grassland ecosystems. Call Stu Garrett, 389-6981 eves., for details.
- July 24, Sat. **Field Trip:** Canyon Creek Meadows. Another Cascades classic. Reid Schuller, a superb botanist and probably the most knowledgeable person on the wildflowers of these meadows, will lead this 4 mi. R.T. hike, with 500 ft. elev. gain. The meadows are located in the Mt. Jefferson Wilderness at the base of Three-Fingered Jack. Meet: **USFS Sisters Ranger District parking lot in Sisters, 9 A.M. (NOT IN BEND).** Limit 12, due to wilderness travel. Call Reid, 317-0199 days, or 317-1901 eves., for **pre-registration. Don't just show up!**
- Aug. 14, Sat. **Field Trip:** Broken Top Volcano. This is our annual trek to view the spectacular scenery and alpine wildflowers in the high Cascades west of Bend.. 6 mi. R.T., moderate to strenuous hike, with 1700 ft. elev. gain. Mostly off-trail hiking through the Three Sisters Wilderness, so number limited to 12. **Pre-registration required.** Call trip leader Stu Garrett, 389-6981 eves., to sign up.
- Aug. 21, Sat. **Field Trip:** Three-Fingered Jack area. Difficult, 12 mi. R.T. hike up toward Three-Fingered Jack, with a short, steep, cross-country trek downhill, to connect with a loop trail that will pass three nice lakes. Bring a swimsuit and we can cool off in the last lake if the weather is warm. Meet at the Bend J.C. Penney parking lot, 9:30 A.M. Wilderness travel limits trip to 12, so call Sierra Club leader, Alison Hamway, 382-2035, for details and **registration.**

Klamath Basin

Meeting: No meetings in July or August.

Mid-Columbia

- July 7, Wed. **Meeting:** 6:30 P.M. Our annual potluck at Jerry Igo's beautiful home in the heart of the Columbia Gorge's oak woodlands, 6 mi. SE of Mosier. For directions, write Jerry (P.O. Box 603, Mosier, OR 97040) or call Barbara Robinson (541-296-5334)
- Aug. 4, Wed. **Meeting:** 7 P.M. At the beautiful home of Stuart and Mildred Chapin on the bluff overlooking the Columbia at 464 SW Eyrie Rd., White Salmon. Steve Northway,

Corvallis Chapter president, will give us a presentation on monarch butterflies and other pollinators, the fascinating ways in which plants and pollinators are adapted to each other, and how their Chapter is restoring habitat to help pollinators survive. Call Stuart Chapin, 509-493-2823, for directions.

Sept. 1, Wed. **Meeting:** 7:30 P.M. Discovery Center Theatre, The Dalles. Rhoda Love will Share her research on "The Long, Happy Life of Louis F. Henderson," a remarkable plant collector in the Northwest who quite a while in the Hood River area.

North Coast

For information on the North Coast Chapter, call Christine Stanley, 503 436-0161.

Portland

July 11, Sun. **Field Trip:** Sheep Canyon, Mt. St. Helens. How about old-growth noble fir, the fragrance of lupines, the subtle orange agoseris, yellow creamy penstemons, and a great view of the rim for lunch. Hike about 6 mi. R.T., with 1200 ft. elev. gain, to highest point at 4,600 ft. If you are unfamiliar with the trail, you are encouraged to call the trip leader. Leave 8:30 A.M., Gateway/99th Ave. Park & Ride, SE corner of parking lot. (I-84 east to exit 7, turn right immediately onto NE 99th). Second mtng. place, Yale Reservoir Recreation Site, 9:45. Call Carroll Dubuar, 234-4135 for info.

July 13, Tues. **Meeting:** 7 P.M. First United Methodist Church, 1838 Jefferson St., Portland. Skip Haak will speak about the process of obtaining a permit for impacting wetlands and factors considered when preparing a mitigation plan to offset impacts. He'll relate this to a restoration project at Clairemont Wetlands. (July 18 related field trip.)

July 18, Sun. **Field Trip:** Skip Haak, our July meeting speaker, will show us his project at Clairemont Wetlands. See a good example of mitigation in a developing urban area, while we visit with *Ribes sanguineum*, *Rosa nutkana*, *Lupinus polyphyllus*, *Bidens cernua*, maybe a few interesting amphibians, and some birds, so bring the binoculars. Also bring rubber boots and lunch. Leave: 9 A.M., Cedar Hills Shopping Center parking lot, east end. (Hwy. 26 west, take exit 69B, follow signs to Cedar Hills.) For more information, call Skip, 460-3198.

July 24, Sat. **Field Trip:** Hawk Mountain. USFS botanist, Carol Horvath, will lead a 5 mi. ridge top hike through old-growth forest, interspersed with meadows. Elev. gain is 1,300 ft. (3500 - 4800). Hike is rated moderate by one local hiking book, and "more difficult" by the Forest Service. We will shuttle cars to both ends of the trail. We hope meadows will be at their peak, with displays of *Castilleja*, *Achillea millefolium* and others. Hike destination may change if another site seems promising. Bring enough water, rain gear, layers of clothing. Hiking g boots encouraged. Limit 12. **Pre-registration required.** Call Carol, 775-2650, to register.

Aug. 8, Sun. **Field Trip:** Cloud Cap, Mt. Hood. Beth Magnus and Greg Stone will lead this beautiful trip. Details in next Bulletin, or call Beth, 226-7919.

Siskiyou

Meeting: No meetings until September.

- July 3, Sat. **Field Trip:** Mineral Fork. Led by Rich Nawa, 541-592-4459. 8 A.M. to 5 P.M. Call for meeting place. Moderately strenuous off-trail hike to Mineral Fork roadless area in the Chetco River watershed.
- July 4, Sun. **Wildflower Show:** In the gazebo near the band shell in Lithia Park in Ashland. The show begins when the parade is over, and continues into the afternoon. For more information, call Elaine Plaisance or Jim Duncan, at 541-482-7629.
- July 10 - 11, Sat. - Sun. **Field Trip:** Youngs Valley. Led by Ron Pio. Moderate to strenuous hike, with overnight camp. Possible off-trail hiking and side hikes. Depending on the group, return 7 P.M., July 11. **Pre-registration required.** Call the Siskiyou Project, 541-592-4459.
- Aug. 7, Sat. **Field Trip:** Mt. Elijah/Bigelow Lake, Siskiyou Mountains (just south of Oregon Caves). Late summer wildflowers, wildlife, evening/night hike. Bring sack supper, flashlight, water, jacket. Leaders: Maria Ulloa (541-471-6528, wildflowers); Mary Bell (wildflowers); Lee Webb (541-471-6500, wildlife). Meet: Illinois Valley Visitor Center, 201 Caves Hwy., Cave Junction, 4 P.M., return by 11 P.M. Moderate to difficult hike.
- Aug. 8, Sun. **Field Trip:** Rough and Ready, once again. Led by Mike Anderson. Return to Rough and Ready, this time to a low-water creek crossing to a Pleistocene bench (possibly the result of a cataclysmic glacial event). Here we'll visit an unusual, flat, narrow California pitcher plant fen, which meanders across the bench. The fen is home to the sensitive and seldom seen Oregon willow herb, which, along with other attributes, has the cutest darn stigma you'll ever see! Meet: Illinois Valley Visitor Center, 201 Caves Hwy., Cave Junction, 9 A.M. Easy, 3 mi. hike.
- Aug. 14, Sat. **Field Trip:** Red Mountain (in the high Siskiyou Mountains). Led by Barbara Mumblo (541-899-1842). Enjoy alpine wildflowers and the cool weather at high elevations in late summer. Meet: 9 A.M., USFS Star Ranger Station, 7 mi. south of Ruch on upper Applegate Rd.
- Aug. 15, Sun. **Field Trip:** Snorkeling in the East Fork Illinois River, 1-5 P.M. Led by Rich Nawa. Instruction for adults and children about snorkeling techniques in small streams. Learn to identify juvenile (3-8 in.) rainbow trout, coho salmon and cutthroat trout by their distinctive markings, behavior and habitat selection. Bring a mask, snorkel, sneakers and wet suit if you have one. Meet at the Siskiyou Project office, 9335 Takilma Rd.

South Coast

For information on the South Coast Chapter, call Bruce Rittenhouse, 541-888-9328.

Umpqua Valley

- July 8, Thurs. **Meeting:** 6 P.M. Potluck dinner and monthly meeting, Hillcrest Vineyard, 240

Vineyard Lane (off Elgarose Rd.). Call Richard Sommer, 673-3709, for more info.

July 10, Sat. **Field Trip:** Hike to Fairview Lookout on Bohemia Mtn. Meet: BLM parking lot, 877 Garden Valley Blvd., 8 A.M. Trip leader: Jack Stubbs. Contact Richard Sommer, 673-3709, for more information.

Willamette Valley

Meeting: No meetings in the summer.

July 3, Sat. **Field Trip:** Bohemia Meadows and Fairview Peak. These are twin mountains, SE of Eugene, each just under 6,000 ft. elev. Meet: S. Salem K-Mart, leave 7:30 A.M. We'll meet Emerald Chapter members at LCC, just off I-5 in Eugene, about 8:45. Hikes to the tops of the mountains are of moderate difficulty, but each is relatively short, starting from a common saddle between the two. Bring lunch, water, appropriate clothing. Call trip leader Wilbur Bluhm, 393-2934, for information.

July 17, Sat. **Field Trip:** Rooster Rock Meadows in the Table Rock Wilderness area, east of Molalla. Claire Hibler, BLM botanist, will lead this 2 mi. hike up to the meadows which are sure to be filled with a beautiful show of wildflowers. Leave, 8 A.M., BLM parking lot, corner of Commercial and Fabry Rd. SE. Call Claire, 503-375-5677, for details.

Aug. 14, Sat. **Field Trip:** To Nasty Rock, at the headwaters of the Molalla River in the Cascades. Marilyn Lowery, BLM botanist, will lead this late season hike along an established trail through mature forests and rocky openings, up to the rocky pinnacle of Nasty Rock. Rock garden plants, scenic vistas and the rare Gorman's aster will be seen on this trip. Leave, 8 A.M., BLM parking lot, corner of Commercial and Fabry Rd. SE. Call Marilyn or Claire, 503-375-5677, for details.

William Cusick

Meeting: No meetings in the summer.

IMPORTANT NOTE TO FIELD TRIP PARTICIPANTS

Field trips take place rain or shine, so proper dress and footwear are essential. Trips may be strenuous and/or hazardous. Participation is at your own risk. Please contact the trip leader or chapter representative about difficulty, distance, and terrain to be expected on field trips. Bring water and lunch. All NPSO field trips are open to the public at no charge (other than contribution to carpool driver) and newcomers and visitors are always welcome.

NOTICE TO FIELD TRIP CHAIRS AND LEADERS

The Forest Service and other agencies have set policies limiting group size in many wilderness areas to 12. The reason is to limit human impacts on these fragile areas. Each group using wilderness areas should be no larger than 12.

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NPSO Membership Directory lists names, addresses, phone numbers of NPSO members (April 1999). Available for \$3 from Jan Dobak, 2584 Savier St., Portland, OR 97210.

NPSO Field Trip Safety

This year, on one of the Portland Chapter's field trips, a participant suffered a broken ankle. This prompted a meeting of the Chapter's officers on field trip safety, and put the topic on the agenda for the upcoming State Board meeting.

Here are some ideas we are discussing: Concerning the "IMPORTANT NOTE TO FIELD TRIP PARTICIPANTS," that appears in each issue of the Bulletin, should it be moved, highlighted, or otherwise emphasized, so it will be more noticeable? We might want to make pre-registration a requirement of more trips, so that participants must speak to the trip leader. Perhaps it would be a good idea to hold a meeting of all chapter field trip leaders at the start of the hiking season, to discuss safety and first aid, and to hand out packets containing complete first aid kits, sign-in sheets, disclaimers, and maybe even providing a cell phone for every outing. If you have any ideas, or would like to discuss field trip safety, please call me at 503-652-1531.

Greg Stone
Portland Chapter

New Bulletin Editor

As this issue of the Bulletin was being finished, a new editor appeared. He is energetic, enthusiastic and computer literate, and he has done work on the newsletters of environmental organizations. Chapter program and field trip chairs, and anyone else submitting material to the Bulletin, should send it -- promptly, of course -- to: Richard Greenough, 10765 SW Butner Rd., Apt. 23, Portland, OR 97225; 503-350-2360 evenings; Richard.Greenough@orchidlink.com

Berry Garden Events

These are a few of the upcoming events at The Berry Botanic Garden, 11505 SW Summerville Ave., Portland, Oregon 97219, 503-636-4112.

Fri., July 9, 9 A.M. to Noon. Plant portraiture (techniques of photography, bring your own camera and film) Members \$15, non-members, \$18. Limit 15.

Sat., July 17, all day: Native Plants, banana slugs and ice cream.

Sat., July 17, 10 A.M. to Noon. Native Plants, Gifts of Healing. Members \$5, non-members, \$8. Limit 24.

Tues., Sept. 21, 10 A.M. to Noon. The Endangered (and Extinct) Plants of Portland. \$5. Limit 20.

Sat., Sept. 25, 10 A.M. to Noon. The Orchids of Costa Rica and How to Grow Them. \$5. Limit 20.

Leach Garden Events

The following events will take place at the Leach Botanical Garden, 6704 NE 122nd Ave., Portland, Oregon, 503-761-9503. All programs begin at 7 P.M. , and cost \$12.50 for members of Leach Garden Friends, \$15 for non-members.

July 14: Water Ways - responsible gardening for water quality.

July 21: Birds of What Feather? - just what are those birds you've attracted to your garden.

July 28: Open House: guided tours, with refreshment and entertainment.

August 4: Wild Times with Thyme - taking herbs from the garden to the kitchen.

August 11: The Nature of Botanical Illustration - explore the detail and elegance of this ancient form of garden art.

August 25: Cool Containers - ideas to brighten the cool and fall and winter months.



An Invitation to Join Friends of the Oregon Flora Project

The Oregon Flora Project continues to make progress. A demonstration of the electronic plant Atlas and a checklist of Oregon sedges, rushes, lilies and orchids are now being prepared. The Asteraceae Checklist is still available. We of the Friends Committee are grateful for the sponsorship of NPSO as we work to raise funds to produce the new Flora of Oregon. Your donation of any size sent to the address below will help this important effort and make you a Friend of the Oregon Flora Project.

The Friends Committee has been active. Our brochure reached all NPSO members in January and we thank NPSOers for their generous donations. We have placed displays at several flower shows in May. We are now expanding our campaign to reach new individual, foundation, and corporate contributors for grants to support key staff positions. We continue to need enthusiastic folks to help us develop strategies. If you would like to help please contact Keli Kuykendall at (541) 758-8409 (kuykendk@peak.org) or write her at the Friends address.

Please make checks payable to:
Native Plant Society of Oregon
and mail to:
Friends of the Oregon Flora Project
P.O. Box 402
Corvallis, OR 97339-0402

NATIVE PLANT SOCIETY OF OREGON MEMBERSHIP FORM

Name _____
 Address _____
 City _____
 State _____ Zip+4 _____
 Phone _____
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 Chapter (if known) _____

DUES include monthly *Bulletin* and *Kalmiopsis* when published. Membership is for calendar year. January to December.

() New () Renewal
 () Student..... \$12
 () Regular..... \$18
 () Family..... \$24
 () Sustaining..... \$50
 () Patron.....\$100
 () Life Membership.....\$500

Is this a change of address?

If so, please write your old address here:

() Subscription Only (*Bulletin* & *Kalmiopsis*)..... \$18
*Only for those who wish to subscribe,
 but do not want to have full membership status.*

CONTRIBUTIONS to NPSO are tax deductible.

Jean Davis Memorial Scholarship Fund \$ _____
 Leighton Ho Memorial Field Botany Award
 Fund \$ _____
 Rare and Endangered Plant Fund \$ _____

Please make checks for dues and contributions payable to:

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STATE OFFICERS

DIRECTORS (to 6/99).....Bruce Barnes, Bruce Newhouse, Kareen Sturgeon
 DIRECTORS (to 6/98).....Dan Luoma, Ben Fawver, Steven Jessup
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 IMMEDIATE PAST PRESIDENT.....Michael Igo..... PO Box 603, Mosier, OR 97040-0603
 VICE PRESIDENT.....Michael McKeag.....7461 SW 184th Pl., Aloha, OR 97007-5740; (503) 642-3965
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 TREASURER.....Jean France.....5877 SW Kennycroft Way, Lake Oswego, 97035-7023; (503) 639-0741

CHAPTER PRESIDENTS

BLUE MOUNTAIN (Pendleton) Jerry Baker..... 58840 Bar M Lane, Adams, OR 97810-3003; (541) 566-3381
 CHEAHMILL Kareen B. Sturgeon..... 1135 Winterwood Loop, McMinnville, OR 97128; (503) 472-0866
 CORVALLIS.....Steve Northway..... 24073 Decker Rd., Corvallis 97333-9510; (541) 929-5375
 EMERALD (Eugene).....Marcia Cutler..... 835 W. 24th Ave, Eugene, OR 97405-2454; (541) 687-2559
 HIGH DESERT (Bend).....Stu Garrett..... 1501 NE Medical Center Dr., Bend, OR 97701; (541) 389-6981
 KLAMATH BASIN David Lebo..... 642 Front St., Klamath Falls, OR 97601-1914; (541) 850-9770
 MID-COLUMBIA Barbara Robinson..... P.O. Box 682, Mosier, OR 97040; (541) 478-3293
 NORTH COAST.....Christine Stanley.....P.O. Box 201, Cannon Beach, OR 97110-0201; (503) 436-0161
 PORTLAND.....Shane Latimer..... 1605 SE 36th Ave., #3, Portland, OR 97214-5123; (503) 232-7405
 SISKIYOU.....Jim Duncan & Elaine Plaisance.....692 B St., Ashland, OR 97520-2026; (541) 482-7629
 SOUTH COAST.....Tim Rodenkirk..... 611 N. 12th St., Coos Bay, OR 97420; (541) 269-4696
 UMPQUA VALLEY (Roseburg).....Cheryl Beyer..... P.O. Box 2008, Roseburg, OR 97470; (541) 440-4931, ext. 269
 WILLAMETTE VALLEY (Salem).....Walt Yungen..... 2020 Center St. NE, Apt. 32, Salem, OR 97301; (503) 581-9511
 WM CUSICK (La Grande).....Frazier Nichol..... c/o Dick Kenton, 1805 U Ave., La Grande, OR 97850; (541) 963-7870

STATE COMMITTEE CHAIRS

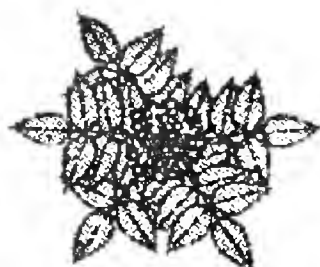
EDUCATION.....Jerry Igo..... P.O. Box 603, Mosier, OR 97040
 RARE AND ENDANGERED.....Bruce H. Rittenhouse.. 550 Fillmore, Coos Bay, 97420-2811; w:756-0100;h:(541) 888-9328
 CONSERVATION, EAST SIDE.....Stu Garrett..... 1501 NE Medical Center Dr, Bend 97701; (541) 389-6981
 CONSERVATION, WEST SIDE.....Steven L. Jessup..... 208 Harrison St., Ashland, OR 97520-2920; (541) 552-6804
 LEGISLATIVE.....Position vacant.....
 MEMBERSHIP.....Jan Dobak.....2584 NW Xavier St, Portland 97210-2412; (503) 248-9242
 BUDGETS AND GRANTS.....Dan Luoma.....3740 NW Harrison, Corvallis 97330; (541) 752-8860

PUBLICATIONS

BULLETIN EDITOR.....John Robotham..... 117 NW Trinity Pl, Apt. 28, Portland 97209; (503) 226-6371
 KALMIOPSIS EDITOR.....Linda Ann Vorobik..... RR 1 Box 1964, Lopez Island, WA 98261-9528; (360) 468-3188
 WEBMASTER.....Lisa Karst..... 8730 SW Washington Dr., Portland, 97223-6866, (503) 977-9818

Send change of address notices
and membership requests to:
Native Plant Society of Oregon
Jan Dobak, Membership Chair
2584 NW Savier St.
Portland, OR 97210-2412

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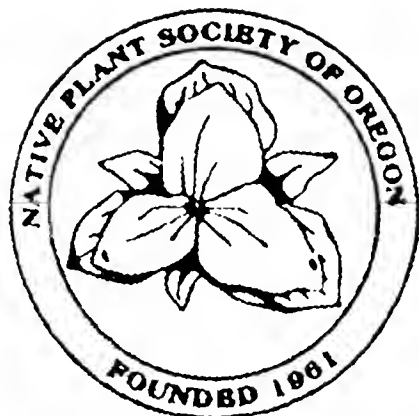
NATIVE PLANT SOCIETY OF OREGON

World Wide Web: <http://www.NPSOregon.org>

General Business Address: P.O. Box 902, Eugene, OR 97440

or correspond directly with the Officers and Committee Chairs listed on the inside back page.

Membership Inquiries Only: Jan Dobak, 2584 NW Savier St., Portland, OR 97210-2412



Bulletin of the Native Plant Society of Oregon

Dedicated to the enjoyment, conservation, and study
of Oregon's native vegetation

VOLUME 32

NUMBER 8

AUGUST 1999

ISSN 0884-599

State News

Treasurer Needed: Treasurer-elect Martha Apple is unable to take office due to work-related considerations. If you are interested in helping NPSO as our treasurer, please contact Bruce Newhouse at (541) 343-2364.

New Directors and Officers: Directors: Dave Dobak, Esther McEvoy, Veva Stansell; President: Bruce Newhouse; Secretary: Rhoda Love.

Chapter News

Blue Mountain

Meeting: No meeting in August.

Cheahmill

Aug. 7, Sat.

Field Trip: Cape Meares. In the unique habitat of the deflation plains at the cape, we will be able to see the twisted orchid in bloom, and also golden-eyed grass, centaury, etc., and with any luck at all, one of the grape ferns. Leader: Marilyn Karbonski. Meet at the ESD at 8:30 A.M. For more information, call Marilyn at 503-852-7230.

Aug. 21, Sat.

Field Trip: Drift Creek. A short 1.5 mile hike through coastal forest where it crosses Drift Creek on a suspension bridge with a spectacular view overlooking Drift Creek Falls. Leader: Dave Hanson. Meet at trailhead at 9:30 A.M. For more information, or to carpool, call Dave at 503-843-4338.

Corvallis

Aug. 9, Mon.

Meeting: Mark Wilson will give a talk entitled, "Restoring Our Prairies: Early Successes in Scientific Management." Also, plan to exchange information about personal seed collections, and what native plants people want to cultivate in the coming year. 7:30 PM, Avery Park, Corvallis. Call Steve Northway, (541) 929-5375, for information.

Aug. 11, Wed. **Field Trip:** Public Tour: National Clonal Germplasm Repository. Facility maintains stocks of many important agricultural crop plants, including pears, strawberries, blueberries and raspberries. It also has worldwide collections of related wild plants from these genera. Tour should last two hours. Meet at Repository headquarters, 33447 Peoria Rd., Corvallis, at 9 AM. The HQ is 1.5 miles south of Hwy 34. Call Clifton Cooper, (541) 757-3527, for information.

Aug. 21, Sat. **Field Trip:** Fanno Bog. This exceptionally wet place in the Coast Range supports a unique assemblage of species, due to well over 100" of annual precipitation. Short walk; may involve some mud. Meet at: OSU parking lot SW of the Beanery, 26th and Monroe, Corvallis, at 9 AM. Call Steve Northway, (541) 929-5375, for information.

Emerald (20th Anniversary Year)

Meeting: No meeting in August. We'll be having our 20th birthday bash at our September meeting!

Our Chapter's transition to new officers took place in July, and we'd like to request help from the membership for some key tasks. If you are interested in helping with Field Trips, Media Contact/Publicity, Booth/Special Events, and/or Hospitality/Refreshments, please contact Marcia Cutler at 687-2559, mar_c@efn.org

Aug. 19, Thurs. **Herbarium Work Party:** 9 A.M. - Noon. LCC Botany Room, Science Building, Room 109, Lane CC main campus. Each year a group of students and others get together to mount the pressed specimens collected throughout the year. Learn how to press and mount herbarium specimens and take accurate collection data. Gail Baker will provide instruction and guidance. For more information, contact Gail at 747-4501x2085, or bakerg@lanecc.edu.

Sept. 27, Mon. **Meeting:** 7:30 p.m. Rm. 109, Science Building, Lane CC main campus. 20th anniversary celebration! Join us for an evening of local botanical history, as Charlene Simpson presents a slide show chronicling 20 years of the Emerald Chapter people, places, and of course, many wondrous photos of local wildflowers. Cake and ice cream will follow! A special invitation is extended to Charter members and all former chapter officers. Directions: From 30th Ave, turn south on Eldon-Schafer Dr., go past Oak Hill School and park in Lane CC's south parking lot, east end. Walk downstairs to Science Bldg.

Oct. 25, Mon. **Meeting:** 7:30 p.m. Room 109, Science Building, LCC main campus. Another great talk/slide show will occur, but we haven't firmed up details yet. More details in September bulletin.

High Desert

Aug. 14, Sat. **Field Trip:** Broken Top Volcano. This is our annual trek to view the spectacular scenery and alpine wildflowers in the high Cascades west of Bend. 6 miles roundtrip, moderate to strenuous hike, with 1700-ft. elevation gain. Mostly off-trail

hiking through the Three Sisters Wilderness, so number limited to 12. **Pre-registration required.** Call trip leader Stu Garrett, 389-6981 eves., to sign up.

Aug. 21, Sat. **Field Trip:** Three-Fingered Jack area. Difficult, 12 mi. R.T. hike up toward Three-Fingered Jack, with a short, steep, cross-country trek downhill, to connect with a loop trail that will pass three nice lakes. Bring a swimsuit and we can cool off in the last lake if the weather is warm. Meet at the Bend J.C. Penney parking lot, 9:30 A.M. Wilderness travel limits trip to 12, so call Sierra Club leader, Alison Hamway, 382-2035, for details and **registration**.

Sept. 28, Tues. **Meeting:** Potluck at Stu Garrett's house. More details in the September Bulletin.

Klamath Basin

Meeting: No meeting in August.

Field Trips: Please contact David Lebo at (541) 850-9770 for the latest information.

Mid-Columbia

Aug. 4, Wed. **Meeting:** 7 P.M. At the beautiful home of Stuart and Mildred Chapin on the bluff overlooking the Columbia at 464 SW Eyrie Rd., White Salmon. Steve Northway, Corvallis Chapter president, will give us a presentation on monarch butterflies and other pollinators, the fascinating ways in which plants and pollinators are adapted to each other, and how their Chapter is restoring habitat to help pollinators survive. Call Stuart Chapin, 509-493-2823, for directions.

Sept. 1, Wed. **Meeting:** 7:30 P.M. Discovery Center Theatre, The Dalles. Rhoda Love will share her research on "The Long, Happy Life of Louis F. Henderson," a remarkable plant collector in the Northwest who lived quite a while in the Hood River area.

North Coast

For information on the North Coast Chapter, call Christine Stanley, 503 436-0161.

Portland

Meeting: No meeting in August.

Aug. 8, Sun. **Field Trip:** Mt. Hood, Cloud Cap. A journey through high mountain meadows will reveal some treasures; Avalanche lilies, Bead lilies, the pink mountain heather, the mop tops (*Anemone occ.*), Partridge foot, the red monkeyflower (*lewisii*), *Castilleja parviflora*, and we're expecting a good Bear-grass year. Hike is 8mi. R/T with 2,000ft. elev. gain, 166mi. R/T driving. Pre-registration is required. Leave 8AM 99th/NE Glisen Park and Ride, southeast corner of parking lot (Exit 7 off of I-84 east, then turn right onto NE 99th). To register call Beth Magnus at 226-7919.

Aug. 15, Sun. **Field Trip:** Sheep Canyon, Mt. St. Helens. How about old-growth noble fir, the fragrance of lupines, the subtle orange agoseris, yellow creamy penstemons, and a great view of the rim for lunch. Hike about 6 mi. R.T., with 1200 ft. elev. gain, to

highest point at 4,600 ft. If you are unfamiliar with the trail, you are encouraged to call the trip leader. Leave 8:30 A.M., Gateway/99th Ave. Park & Ride, SE corner of parking lot. (I-84 east to exit 7, turn right immediately onto NE 99th). Second mtng. place, Yale Reservoir Recreation Site, 9:45. Call Carroll Dubuar, 234-4135 for information.

Siskiyou

Meeting: No meeting in August.

- Aug. 7, Sat. **Field Trip:** Mt. Elijah/Bigelow Lake, Siskiyou Mountains (just south of Oregon Caves). Late summer wildflowers, wildlife, evening/night hike. Bring sack supper, flashlight, water, jacket. Leaders: Maria Ulloa (541-471-6528, wildflowers); Mary Bell (wildflowers); Lee Webb (541-471-6500, wildlife). Meet: Illinois Valley Visitor Center, 201 Caves Hwy., Cave Junction, 4 P.M., return by 11 P.M. Moderate to difficult hike.
- Aug. 8, Sun. **Field Trip:** Rough and Ready, once again. Led by Mike Anderson. Return to Rough and Ready, this time to a low-water creek crossing to a Pleistocene bench (possibly the result of a cataclysmic glacial event). Here we'll visit an unusual, flat, narrow California pitcher plant fen, which meanders across the bench. The fen is home to the sensitive and seldom seen Oregon willow herb, which, along with other attributes, has the cutest darn stigma you'll ever see! Meet: Illinois Valley Visitor Center, 201 Caves Highway, Cave Junction, 9 A.M. Easy, 3-mile hike.
- Aug. 14, Sat. **Field Trip:** Red Mountain (in the high Siskiyou Mountains). Led by Barbara Mumblo (541-899-1842). Enjoy alpine wildflowers and the cool weather at high elevations in late summer. Meet: 9 A.M., USFS Star Ranger Station, 7 mi. south of Ruch on upper Applegate Rd.
- Aug. 15, Sun. **Field Trip:** Snorkeling in the East Fork Illinois River, 1-5 P.M. Led by Rich Nawa. Instruction for adults and children about snorkeling techniques in small streams. Learn to identify juvenile (3-8 in.) rainbow trout, coho salmon and cutthroat trout by their distinctive markings, behavior and habitat selection. Bring a mask, snorkel, sneakers and wet suit if you have one. Meet at the Siskiyou Project office, 9335 Takilma Road.

South Coast

For information on the South Coast Chapter, call Bruce Rittenhouse at 541-888-9328.

Umpqua Valley

Meeting: No meeting in August.

- Aug. 14, Sat. **Field Trip:** Diamond Lake to see *Schistostega pennata* and summer wildflowers. Meet in the BLM parking, 777 NW Garden Valley Blvd at 8:00 AM. Contact Russ Holmes, 672-4635 for more information.

Willamette Valley

Meeting: No meeting in August.

Aug. 14, Sat. **Field Trip:** To Nasty Rock, at the headwaters of the Molalla River in the Cascades. Marilyn Lowery, BLM botanist, will lead this late season hike along an established trail through mature forests and rocky openings, up to the rocky pinnacle of Nasty Rock. Rock garden plants, scenic vistas and the rare Gorman's aster will be seen on this trip. Leave, 8 A.M., BLM parking lot, corner of Commercial and Fabry Rd. SE. Call Marilyn or Claire, 503-375-5677, for details.

William Cusick

Meeting: No meeting in August.

Aug. 7, Sat. **Field Trip:** Barbara Russell will lead a hike up the Bowman Trail 6 miles to Chimney Lake in the Eagle Cap wilderness. This trail starts on the Lostine River road, crosses the Lostine River and then climbs, so the first two miles will be fairly strenuous. Total elevation gain is 2400 feet; the lake is at 7600 feet. We will leave at 7:00 a.m. from the Forest and Range Lab in La Grande, located at C Ave. and Gekeler Lane. It takes about 2 hours to drive to the trailhead. If you plan to take your vehicle you must have a trail park pass in order to park at the trailhead which can be obtained from the Forest Service; the cost is \$3.00 per day or \$25.00 per year. Please wear hiking boots, take plenty of water and enough food for two meals and snacks. Also bring a first aid kit. We will plan to be back in La Grande by 9:00 p.m. Limit is 12 people, so call Barbara to register at (541) 962-7749.

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 Address _____
 City _____
 State _____ Zip+4 _____
 Phone _____
 E-Mail _____
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 PRESIDENT Bruce Newhouse 2525 Potter St., Eugene, OR 97211; (541) 343-2364
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PUBLICATIONS

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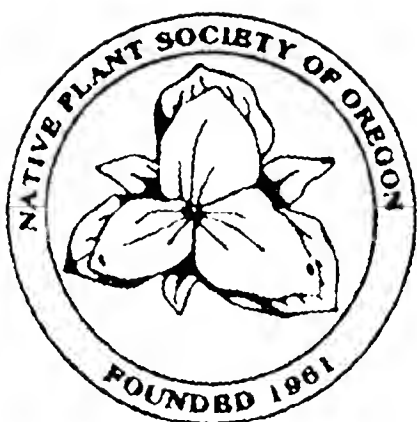


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NATIVE PLANT SOCIETY OF OREGON
World Wide Web: <http://www.NPSOregon.org>
General Business Address: P.O. Box 902, Eugene, OR 97440
or correspond directly with the Officers and Committee Chairs listed on the inside back page.
Membership Inquiries Only: Jan Dobak, 2584 NW Savier St., Portland, OR 97210-2412



Bulletin of the Native Plant Society of Oregon

Dedicated to the enjoyment, conservation, and study
of Oregon's native vegetation

VOLUME 32

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ISSN 0884-599

State News

Treasurer Needed: Treasurer-elect Martha Apple was unable to take office due to work-related considerations. If you are interested in helping NPSO as our treasurer, please contact Bruce Newhouse at (541) 343-2364.

Oct. 2, Sat.

Board Meeting: The next board meeting will be held at 10 A.M. in Corvallis. For details, call Cliff Cooper at (541) 757-3527.

Chapter News

Blue Mountain

Meeting: No meeting in September.

Cheahmill

Sept. 4, Sat.

Work Party: Planting trees, shrubs, and perennials at the McMinnville Public Library, W. 2nd and Adams St. Meet at the library at 9 A.M. Contact Mary Bryant, 434-5060 or Ruth Crawford 434-9843 if you have questions.

Sept. 18, Sat.

Work Party: More plantings at the McMinnville Public Library, W. 2nd and Adams St. Meet at the library at 9 A.M. Call as above. Watch for announcements about the garden dedication in October.

Sept. 23, Thurs.

Meeting: 7 P.M. (business), 7:30 PM (program) McMinnville Public Library, Carnegie Room, 225 NW Adams. Join us for the first anniversary celebration of NPSO's newest chapter. Enjoy cake and a slide/lecture presentation on "Conservation and Research of Oregon's Endangered Species" by Tom Kaye, botanist with the Oregon Department of Agriculture's Plant Conservation Biology Program and Ph.D. candidate in botany at Oregon State University

Corvallis

- Sept. 13, Mon. **Meeting:** Planning for the upcoming October meeting of the whole NPSO; other topics TBA. 7:30 P.M., Avery House, Avery Park, Corvallis. Call Steve Northway, (541) 929-5375, for information..
- Sept. 18, Sat. **Field Trip:** To Echo Basin (3 miles east of Tombstone Summit). About 3 miles round-trip through old growth to small wetland at base of Echo Mt. Possibility of late orchids, gentians. ALTERNATIVE, if there is interest, and if at least two cars: shuttle from Tombstone Prairie via Cone Peak trail to Echo Mt., descending to Echo Basin and Echo Basin trailhead. This would be approximately six miles, about 1.5 miles off-trail. Meet at: OSU parking lot SW of the Beanery, 26th and Monroe, Corvallis, at 9 A.M. For information: call Loren Russell, (541) 752-7558.

Emerald (20th Anniversary Year)

Our Chapter's transition to new officers took place in July, and we'd like to request help from the membership for some key tasks. If you are interested in helping with Field Trips, Media Contact/Publicity, Booth/Special Events, and/or Hospitality/Refreshments, please contact Marcia Cutler at 687-2559, mar_c@efn.org

- Sept. 27, Mon. **Meeting:** 7:30 p.m. Rm. 110, Science Bldg., LCC main campus. 20th anniversary celebration! Join us for an evening of local botanical history, as Charlene Simpson presents a slide show chronicling 20 years of the Emerald Chapter people, places, and of course, many wondrous photos of local wildflowers. Cake and ice cream will follow! A special invitation is extended to Charter members and all former chapter officers.

Directions: Due to construction around the LCC Science building, where our meetings are held, you will have to follow a new access route. Please allow a few minutes extra time to get to our meeting room. Park in the middle of the South Parking Lot of LCC's main campus (off of 30th Ave.), and walk down stairs toward the Forum Bldg., along construction fencing. Follow pathway and turn right (north-east) toward main entrance to Science Bldg.

- Oct. 25, Mon. **Meeting:** 7:30 p.m. Room 110, Science Building, LCC main campus. A great talk/slide show will occur, see October bulletin for details.
- Nov. 22, Mon. **Meeting:** Nov. 22, Mon. Meeting: 7:30 p.m. Room 110, Science Building, LCC main campus. Another great talk/slide show will occur, see Oct. bulletin for details.

High Desert

- Sept. 28, Tues. **Meeting:** Potluck at Stu Garrett's house, 21663 Paloma Dr., Bend at 6:30. Call Stu with questions 389-6981.
- Oct. 26, Tues. **Meeting:** members slide show at 7:30 at the Central Oregon Environmental Center, 16 NW Kansas, Bend. Each member should bring 12 favorite, recent slides to share.

Klamath Basin

Meeting: 1st meeting of the year will be either on Sept. 14 or Oct. 12 (2nd Tues. of the month) at 7 P.M. in Owens Hall on the OIT campus in Klamath Falls. Chapter members will be notified of the 1st meeting date and the room number later by e-mail or postal mail. For information or questions, contact David Lebo, (541) 883-8393.

Field Trips: Mushroom field trip planned for either late Sept. or early Oct. More details to be announced later. Please contact David Lebo at (541) 883-8393 for the latest information.

Mid-Columbia

Sept. 1, Wed. **Meeting:** 7:30 P.M. Discovery Center Theatre, The Dalles. Rhoda Love will share her research on "The Long, Happy Life of Louis F. Henderson," a remarkable plant collector in the Northwest who lived quite a while in the Hood River area.

Oct. 6, Wed. **Meeting:** 7:30 P.M. Discovery Center Theatre, The Dalles. Heather Laub, a member of our chapter and a botanist with the Hood River Ranger District, spent last winter in Australia. She will tell us about her travels and her interesting work in a plant nursery there.

North Coast

For information on the North Coast Chapter, call Christine Stanley, 503 436-0161.

Portland

Sept. 14, Tues. **Meeting:** Warm Springs Forest Manager, Bodie Shaw, will talk about the Warm Springs Sustainability Project. One goal of the project is to provide information on which to base improved huckleberry management strategies on the Warm Spring Indian Reservation and ceded, usual and accostomed lands. The room will be open at 6:30 P.M. for socializing and the meeting will take place at 7 P.M. in room #355 at the First United Methodist Church, 1838 SW Jefferson St., in Portland.

Siskiyou

Sept. 16, Thurs. **Meeting:** It's time for the annual potluck. Please bring slides and a dish to share with the group. We'll meet at Glenwood Park (NOTE* NEW LOCATION) at 6 P.M. for dinner. The park is within walking distance of the SOU Science Building, Room 171, where the meeting and slide show will begin at 7:30. Bring a folding chair, if you have one. For more information, call Susan E. Nyoka, 482-2509.

South Coast

For information on the South Coast Chapter, call Bruce Rittenhouse at 541-888-9328.

Umpqua Valley

Sept. 10, Thurs. **Meeting:** Organizational meeting to discuss winter schedule. County Court House, Room 310 at 7:00. Call Richard Sommer for more information, 673-3709.

Willamette Valley

Sept. 20, Mon. **Meeting:** 7 P.M. Room 225, United Methodist Church, 600 State St NE, Salem. Program will be members' slides, "What I Saw This Summer." If you have slides to be included, please contact the Hallidays at (503) 371-1025 prior to the meeting.

William Cusick

Meeting: No meeting in September.

IMPORTANT NOTE TO FIELD TRIP PARTICIPANTS

Field trips take place rain or shine, so proper dress and footwear are essential. Trips may be strenuous and/or hazardous. Participation is at your own risk. Please contact the trip leader or chapter representative about difficulty, distance, and terrain to be expected on field trips. Bring water and lunch. All NPSO field trips are open to the public at no charge (other than contribution to carpool driver) and newcomers and visitors are always welcome.

NOTICE TO FIELD TRIP CHAIRS AND LEADERS

The Forest Service and other agencies have set policies limiting group size in many wilderness areas to 12. The reason is to limit human impacts on these fragile areas. Each group using wilderness areas should be no larger than 12.

POSTAL NOTICE

Bulletin of the Native Plant Society of Oregon; Richard Greenough, Editor; 10765 SW Butner Rd #23, Portland, OR 97225. Published monthly. Subscription price \$18/year. ISSN 0884-599. Date and issue number on page 1.

Opinions expressed in this publication are those of the authors of the articles.
They do not represent the opinions of the Native Plant Society of Oregon, unless so stated.

Guidelines for contributors to the Bulletin

The NPSO Bulletin is published monthly as a service to members and the public.

All kinds of contributions are welcome. **Copy is due by the 10th of the month.**

CREDITS: Identify author and affiliation. If it's not original, cite source and date.

ILLUSTRATIONS: Line drawings and high contrast black-and-white prints are useable.

Contact editor for current needs, or send illustrations with the article.

BOTANICAL NOMENCLATURE: Follow "Flora of the Pacific Northwest"

By Hitchcock, or "The Jepson Manual," where appropriate.

FORMAT: Submissions can be in any form. For further details, consult editor.

ORIGINALS: Submissions are not returned, unless requested.

Looking Forward

By Bruce Newhouse, President, NPSO

Hello, NPSO Friends and Flora Lovers!

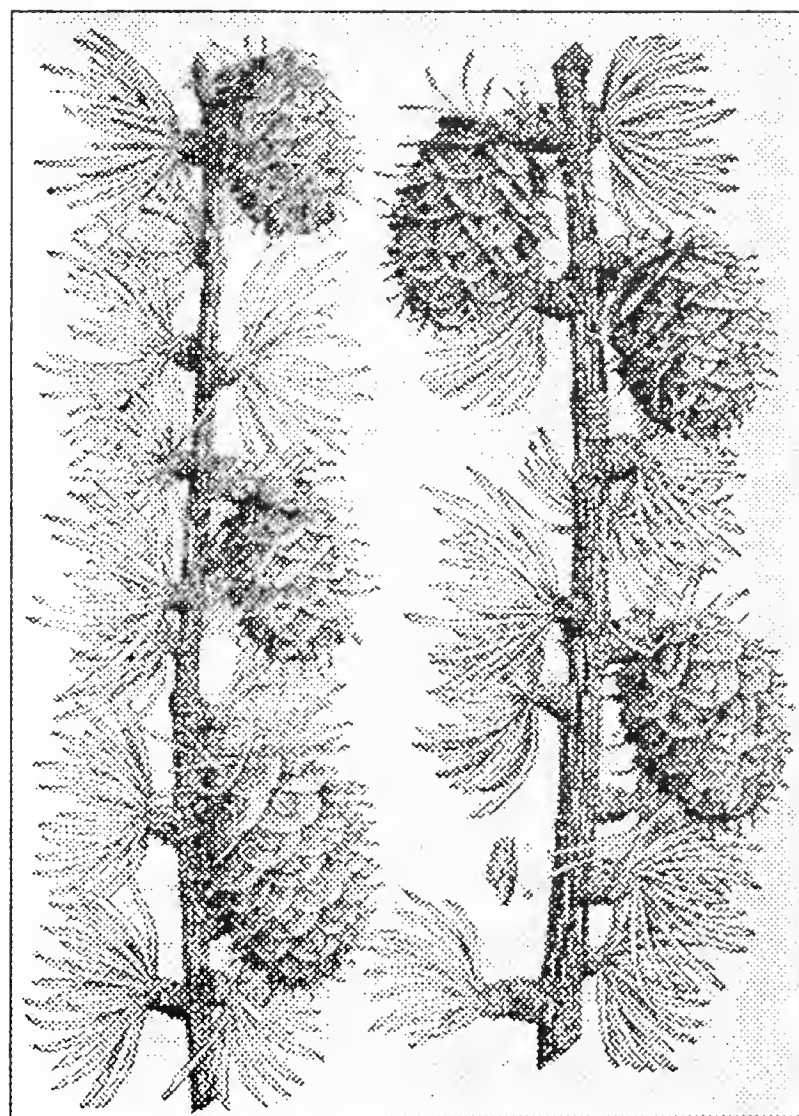
I am happy, delighted and proud to be your state President this year. Rhoda Love, your new Secretary, and I, took the oath at the annual meeting with our hands on Hitchcock and Cronquist's "Flora of the Pacific Northwest" and on Peck's "Manual of the Higher Plants of Oregon." Rhoda said she thought that it might have been a marriage ceremony, but my partner Peg assures me that it was not. Anyway, just to confuse the situation a little more, Mike McKeag's hand was there, too, as your returning Vice President.

Mike has very, very kindly offered to TEMPORARILY act as treasurer, too, pending one of our members (is it you??) stepping forward and offering your services. Particularly, if you have any professional experience with financial matters, or think you could learn, please let us know. Our immediate past Treasurer, Jean France, did an ever-so-elegant job getting our ducks in a row. Now we just need some Oregon plant lover to maintain the ducks (and, of course, the duckweed). Think about it.

Speaking of immediate pasts, I want to extend a heartfelt "thank you" to Mike Fahey for his tenure as President. I always had great respect for his gentlemanly manner, well-reasoned opinions, and graciousness in directing the NPSO show. You inspired me, Mike -- thank you! And Mike McKeag, who backed him up, filled in when Mike F. had to resign, and now, filling in as Treasurer -- wow, what dedication! (Does this guy like native plants or what?) And speaking of gentlemen, there's John Robotham, who really pulled the weight for the last few years as Bulletin editor. John's flawless editing and personal touch of including literary quotes added a richness to the Bulletin that will be

remembered for a long time. Thanks, John, I'll miss you.

I could go on with thank-yous and such: Mike and Jerry Igo, Jan and Dave Dobak, Rhoda Love, Dave Wagner, Charlene Simpson, Lisa Croft and Bruce Rittenhouse (past presidents), Veva Stansell, Tom Kaye and Keli Kuykendall, Esther McEvoy, Shane Latimer, Sue Allen, Stu Garrett, Dan Luoma, Steve Jessup, Kareen Sturgeon and (your name here). You all are my inspiration, and my hope that we can protect what remains of native Oregon -- in spite of the amazing anti-environmental momentum of today's politics.



Laryx occidentalis

From George B. Sudworth's
Forest Trees of the Pacific Slope,
Government Printing Office, 1908

Oregon Flora Project Challenge

By Jerry Igo

The Mid-Columbia Chapter gave \$10 per member to the Oregon Flora Project last year. This year we have pledged to do the same.

We challenge all other chapters to give \$10 per member over and above any individual donations.

This would realize nearly ten thousand dollars per year and hasten the completion of this worthwhile project.

Mount Pisgah Arboretum Seeks Volunteers

The Arboretum's Education Program is looking for enthusiastic and concerned volunteers to work as nature guides, leading local elementary school children on Fall Ecology tours. Natural history training and educational materials are provided. Volunteers are required to lead a minimum of one morning tour per week (Sept. 27-Nov. 12). Orientation begins Tuesday, September 14. For information or an application, call the Arboretum Education Office in Eugene at (541) 747-1504.

Nature Conservancy Work Parties

Sept. 4-5, Sycan Marsh Preserve (northeast of Klamath Falls). Removing old fences. Contact Molly Dougherty at (503) 230-1221.

Sept. 11, Willow Creek Preserve (West Eugene Wetlands). Removing non-native species. Contact Ed Alverson at (541) 682-5586.

Sept. 11-12, Dunstan Homestead Preserve (near John Day). Repairing historic structures. Contact Molly Dougherty at (503) 230-1221.

Sept. 18-19, Juniper Hills Preserve (on the Crooked River). Removing non-native species and thinning juniper stands. Contact Molly Dougherty at (503) 230-1221.

Sept. 25, Cascade Head Preserve (near Lincoln City). Removing Queen Anne's Lace. Please contact Debbie Pickering at (541) 994-5564 or Molly Dougherty at (503) 230-1221.

New Edition of *Plants of the Oregon Coastal Dunes*

Oregon State University Press has published an updated edition of *Plants of the Oregon Coastal Dunes* by Alfred M. Wiedemann, La Rea J. Dennis, and Frank H. Smith (128 pages, paperback)

NPSO Items for Sale

Oregon's Rare Wildflower Poster depicts Punchbowl Falls and three of the Columbia River Gorge's endemic wildflowers. Text on the back describes the natural history of the Gorge and the mission of the NPSO. Available from Stu Garrett, 21663 Paloma Dr., Bend, OR 97701 (541) 389-6981. Individuals may order posters at \$12 each, plus \$3 per order for shipping. Posters are mailed in tubes. Chapter treasurers may contact Stu for wholesale prices to chapters.

NPSO's Original Wildflower Poster depicts 13 Oregon wildflowers in a striking artist's rendition. Soon to be a collector's item. Available from Stephanie Schulz, 84603 Bristow Rd., Pleasant Hill, OR 97455, \$5 each, plus \$3 per order for shipping. Posters are mailed in tubes.

NPSO Membership Directory lists names, addresses, phone numbers of NPSO members (April 1999). Available for \$3 from Jan Dobak, 2584 Savier St., Portland, OR 97210.

"Charles A. Geyer, Pioneer Botanist of Upper Oregon," by Thomas R. Cox: A Review

By Rhoda Love, Emerald Chapter

Most *Bulletin* Readers know of the Plant Hunters project being coordinated by Professor Emeritus Arthur Kruckeberg of the University of Washington and myself. We are happily serving as co-editors of what will be a book of biographies of Northwest botanical explorers and plant collectors from earliest times to the present. Art and I have received many very fine essays from our numerous dedicated authors and a few of these, with our blessings, have been finding their way into print even before the book is finished. The outstanding essay on Geyer in the journal *Idaho Yesterdays* reviewed here is one of the best to appear so far.

Thomas R. Cox, the author, is a retired history professor who grew up in Oregon and received his undergraduate degree in biology from OSU. He now lives in McCammon, Idaho. Tom has written both a fascinating and a carefully researched essay on the German collector Charles A. Geyer who spent the years 1843 and 1844 exploring Idaho and Washington -- then considered parts of "Upper Oregon." Geyer collected nearly 10,000 plant specimens representing some 600 species in his two years in the Northwest, and England's William Jackson Hooker named thirteen species in his honor. One of those, illustrated in the article, is *Physaria geyeri*, a caespitose mustard from the upper Spokane River.

Born in Dresden, Germany, in 1809, Geyer was trained in botany as a youth, and traveled to America in the 1830s heading for St. Louis which he knew was the stepping-off place for exploration of the upper Missouri River and the poorly-surveyed western part of the continent. Upon arrival, he attached himself to several expeditions and gained experience in

wilderness travel. In 1843 he found a patron in the famous Dr. George Engelmann (of the Engelmann spruce) who financed a collecting trip into the northwest with the understanding that Geyer's plant specimens would come back to Engelmann in St. Louis.

Traveling as part of a large and well-supplied party, Geyer started west along the Oregon Trail in 1843 -- the same year as the first major migration of pioneers in covered wagons. Leaving the large party as he neared what is now Idaho, Geyer traveled with smaller groups, staying at Indian villages and missions as he explored much of what is now Idaho and Washington state. As he traveled and collected, Geyer kept a detailed journal of his observations. He was particularly interested in Indian uses of plants and his ethnobotanical notes are especially useful. Fortunately for us, this narrative of Geyer's travels was published by William Hooker along with the names of the plants discovered by the explorer.

Geyer's collections never made it back to St. Louis, and I will leave it to the reader of this fascinating article to discover why. However, both his collections and his writings were well publicized by Hooker and have provided Dr. Cox with the raw material for a most intriguing account. In addition, it is clear that Cox himself has traveled to most of the locations mentioned in Geyer's narrative and has thus been able to correct some long-standing mistakes in earlier accounts of the Geyer sojourn. Geyer returned to Germany after his adventure in the American west and there he died, a relatively young man in his early 40s, perhaps worn out by his strenuous explorations of a raw new land.

I heartily recommend this very well-researched, and well-illustrated essay for anyone who, like me, has an interest in early botanical exploration of the Northwest. Readers may purchase copies of the Spring, 1999 issue of *Idaho Yesterdays*, Volume 43, number 1, by

(continued from page 105)

sending \$3.75 to Susan Karaba, Membership Secretary, Idaho Historical Society, 1109 Main Street, Suite 250, Boise, ID 98702

We Welcome New Members

Joining April 28 to July 10, 1999

At-Large

Joy Handley

Cheahmill

Emily Gladhart

Nona Hickenlooper

Emerald

Ross Andrews

Shaul Cohen

Emily Fox

Erik and Ann Muller

Doug Nelson

Theodore and Laramie Palmer

Rosalyn Upson

High Desert

LaVerne L. Dotson

Caroline Lindstedt

Katharine Morton

Mid-Columbia

Donna Enz

Joseph and Victoria Kelsey

Gerald Meligan

North Coast

Craig Wisti

Theo Woods

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Paul and Toni Christensen

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Richard Greenough and Daniel Boren

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Amber Gayle

Anne Morgan

Lynnel Stewart Smith

Bob and Belinda Vos

Willamette Valley

Kenneth F. Bierly

Sandra Elliott

William Hoar

Pat and Dan Montague

Gregory L. Zurbrugg

Berry Garden Events

These are two of the upcoming events at The Berry Botanic Garden, 11505 SW Summerville Ave., Portland, Oregon 97219, 503-636-4112.

Tues., Sept. 21, 10 A.M. to Noon. *The Endangered (and Extinct) Plants of Portland*. You might be surprised to learn that at least eight kinds of plants living in the Portland metropolitan area are either endangered or extinct. Linda R. McMahan, Executive Director and Botanist, discusses the connection between the lifestyles of these plants and why our human lifestyles imperil them. \$5 Limit: 20

Sun., Sept. 26, 10 A.M. to 4 P.M. Fall Plant Sale. Berry Garden plant sales are known for their selection of the unusual and hard to find. Browse over 15 nursery vendors' selections for natives, fine trees and shrubs, perennials, and alpine in a pleasant and relaxed environment! Cedar Hills Recreation Center, Beaverton. Free admission and parking.

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New memberships enrolled after September 1 include the following year.

Send completed form and full remittance to:

Jan Dobak, NPSO Membership Chair, 2584 NW Savier St., Portland, OR 97210-2412

Membership in the Native Plant Society of Oregon is open to all.

Membership applications, renewals and change of address (include old address) should be sent to the Membership Chair

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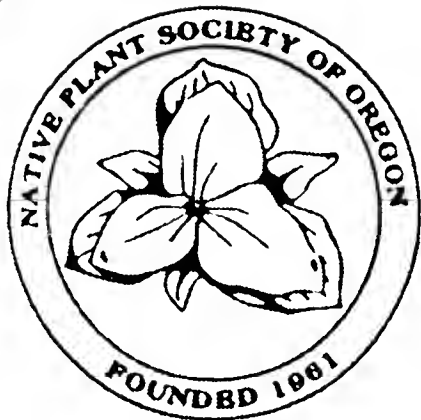
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BOTANICAL GARDEN

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NATIVE PLANT SOCIETY OF OREGON
World Wide Web: <http://www.NPSOOregon.org>
General Business Address: P.O. Box 902, Eugene, OR 97440
or correspond directly with the Officers and Committee Chairs listed on the inside back page.
Membership Inquiries Only: Jan Dobak, 2584 NW Savier St., Portland, OR 97210-2412



Bulletin of the Native Plant Society of Oregon

Dedicated to the enjoyment, conservation, and study
of Oregon's native vegetation

VOLUME 32

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State News

Treasurer Needed: Treasurer-elect Martha Apple was unable to take office due to work-related considerations. If you are interested in helping NPSO as our treasurer, please contact Bruce Newhouse at (541) 343-2364, newhouse@efn.org.

Oct. 2, Sat.

Board Meeting: 10 A.M. in Cordley Hall, Room 2087, Oregon State University, Corvallis. Cordley Hall is located on Orchard Avenue and 27th Street. There is parking on the street since permits are required for most parking lots, although on weekends this may not be a problem. On the west side of the building there is a large horticultural garden next to Cordley. Please use the west entrance near the garden for entry to the building. Room 2087 is on the south side of the building.

Chapter News

Blue Mountain

For information on Blue Mountain Chapter, contact Jerry Baker at (541) 566-3381.

Cheahmill

Oct. 28, Thur.

Meeting: "Sedging around Oregon," a slide/talk presented by Keli Kuykendall. Keli is a botanist who specializes in growing and planting of Willamette Valley upland and wet prairie native species. She is a member of the Carex Working Group, an association of volunteer botanists who study sedges (Carex) in Oregon and whose fieldwork is funded by NPSO. The group has recently produced the Atlas of Oregon Carex, published by NPSO. Copies will be available at the meeting for \$5.00. 7:00 P.M. McMinnville Public Library, Carnegie Room. 225 NW Adams, McMinnville.

Oct. 2, Sat.

Field Trip: Mill Race branch of Cozine Creek through Shadowood. Meet at 10:00 A.M., rain or shine, at bridge over creek. Parking is available across from the tennis courts on West 11th, or on Springwood, and then follow the path to the bridge. Coffee and snacks will be provided under the canopy. For more information contact Rose Marie Caughran (503) 472-6902 at or Kareen Sturgeon at 472-0866.

Corvallis

- Oct. 11, Mon. **Meeting:** Kareen Sturgeon will talk on "Cowbells, Churchbells and Harebells: Botanizing in the Swiss Alps" 7:30 P.M. Avery House, Avery Park, Corvallis. Call Esther McEvoy for more information at (541) 754-0893.
- Oct. 9, 16, Sats. **Work Party:** At Avery House, Avery Park from 10 A.M. to Noon. Bring gloves and energy to help weed the native plant garden and build an archway. If interested, contact Carolyn Ver Linden at (541) 752-7132.
- Oct. 30, Sat. **Field Trip:** Foray to the central-western Cascades for mushrooms and truffles. We will contribute to the Mt. Pisgah Mushroom Show, and keep our eyes out for "FEMAT" listed species. Meet at OSU parking lot SW of the Beanery, 26th and Monroe, Corvallis, at 9 A.M. For information, call Dan Luoma, (541) 752-8860.
- Oct. 31, Sun. **Field Trip:** Visit the Mt. Pisgah Arboretum Mushroom Show. This event near Eugene should be a great sampler of the funguses amongus. Optional hike on Spencer Butte afterward of 4 miles RT/1000' elev. gain, depending on weather. Meet at: OSU parking lot SW of the Beanery, 26th and Monroe, Corvallis, at 9 A.M. For information, call Cliff Cooper, (541) 757-3527.
- Nov. 6, Sat. **Workshop:** Propagation Workshop of Natives-Cuttings, Rhizomes, and Seeds from 10 am to 1 P.M.. Please bring any native seeds or starts you have collected and we will pot them up for the next spring garden sale. If interested contact Esther McEvoy (541) 754-0893.
- Nov. 8, Mon. **Meeting:** Meeting Rhoda Love will give a talk entitled "Aged Botanist Speaks on Plants: The Grand Old Man of Northwest Botany-Louis F. Henderson 1853-1942". Meet at 7:30 P.M. at the Avery House, Avery Park. For more information please contact Esther McEvoy (541) 754-0893.

Emerald (20th Anniversary Year)

Our Chapter's transition to new officers took place in July, and we'd like to request help from the membership for some key tasks. If you are interested in helping with Field Trips, Media Contact/Publicity, Booth/Special Events, and/or Hospitality/Refreshments, please contact Marcia Cutler at 687-2559, mar_c@efn.org

Also we're excited to announce our new bryophyte field trip series, put together by Peggy Robinson. See details of individual trips below and also the article on page 118 of this Bulletin. Thanks, Peggy!

- Oct. 9, Sat. **Field Trip:** Bryophytes of Finley Wildlife Refuge led by Kathy Merrifield of OSU. Meet 9 A.M. at South Eugene High School parking lot OR 10:00 A.M. at Woodpecker Loop parking area at Finley. Bring lunch, hand lens, and dress for rain. For more information, call Peggy Robinson, 744-0439.
- Oct. 25, Mon. **Meeting:** 7:30 P.M., Room 110, Science Building, LCC (Lane Comm. College) main campus. Joy Belsky, Ph.D., Staff Ecologist of the Oregon Natural Desert Association, will talk on "150 Years of Livestock Grazing in the Intermountain

West: An Ecological and Economic Disaster." She'll include information on invasive weeds, microbiotic crusts, and grass-ungulate coevolution.

Directions: Due to construction around the LCC Science building, where our meetings are held, you will have to follow a new access route. Please allow a few min. extra time to get to our meeting room. Park in the middle of the South Parking Lot of LCC's main campus (off of 30th Ave.), and walk down stairs toward the Forum Bldg., along construction fencing. Follow pathway and turn right (north-east) toward main entrance to Science Bldg.

- Oct. 30, Sat. **Field Trip:** Mosses & Lichens of Brice Creek led by Greg Miles of Lane Community College. Meet 10:00 A.M. at South Eugene High School parking lot. Bring lunch, hand lens, & dress for rain. Back by 4:00 P.M. For more information, call Peggy Robinson, 744-0439.
- Oct/Nov., Sats. **Work Parties:** In late Oct. & Nov. (dates not set by Bulletin deadline): "De-Vine Intervention" at Hendricks Park - English Ivy pulling work and pizza parties. Watch the NPSO chat group on line and the Nov. *Bulletin* for details. If you aren't on the chat group e-mail list and want to help out, call Bruce Newhouse at 343-2364.
- Oct. 31, Sun. **Event:** Mt. Pisgah Arboretum Mushroom Show, 10 A.M. to 4 P.M. Over 300 species of fungi will be on display, including another 20 or 30 lichenizing species (lichens). Also, an edible and poisonous fungi display, cultural uses (dyeing, medicinal, etc.), best of show, research poster displays, mushroom identification experts, a moss/liverwort display, interpretive walks, and lots of food and fun. Take I-5 to LCC/30th Avenue exit just south of Eugene. On the east side of the I-5 overpass, go north and follow the signs east to the show.
- Nov. 13, Sat. **Field Trip:** Bicycle Bryology (and Lichenology) in Alton Baker Park led by Dave Wagner. Meet at 1:00 P.M. at Autzen Bike Bridge with bike and required helmet. Dress for rain, bring lunch and hand lens. Trip will end by 4:00 P.M. For more information, call Peggy Robinson, 744-0439.
- Nov. 22, Mon. **Meeting:** 7:30 P.M. Room 110, Science Building, LCC main campus. A slide-illustrated talk, see Nov. Bulletin for details.
- Dec. 13, Mon. **Meeting:** Holiday Gathering, 7:30 P.M., Room 110, Science Building, LCC main campus. Our annual holiday party! Details in the Nov. Bulletin. NOTE: CHANGE FROM 4TH TO 2ND MONDAY (this month only).

High Desert

- Oct. 26, Tues. **Meeting:** Members slide show at 7:30 P.M. at the Central Oregon Environmental Center, 16 NW Kansas, Bend. Each member should bring 12 favorite, recent slides to share.

Klamath Basin

- Oct. 12, Tues. **Meeting:** 7 P.M. in Owens Hall on the Oregon Institute of Technology campus in Klamath Falls. Guest speaker and room number to be announced. For information, call David Lebo, 883-8393.

Mid-Columbia

- Oct. 6, Wed. **Meeting:** 7:30 P.M. Discovery Center Theatre, The Dalles. Heather Laub, a member of our chapter and a botanist with the Hood River Ranger District, spent last winter in Australia. She will tell us about her travels and her interesting work in a plant nursery there.
- Oct. 9, Sat. **Field Trip:** Mushroom hunt in the Mt. Adams area with botanist and mushroom enthusiast Kaitlin Cray. First meeting place: 9:30 A.M. at the Park and Ride just west of the Hood River Bridge on the Washington side. Second meeting place: Trout Lake Ranger Station at 10 A.M.
- Nov. 3, Wed. **Meeting:** 7:30 P.M. in the Discovery Center Theater, The Dalles. We have a very special guest speaker this month: Catherine Elston, Professor of History at the University of Northern Arizona, who has worked closely with the Hopi and Navajo for years. She will tell us about medicinal and ceremonial plants of the Navajo (and hopefully with some video of a Navajo wedding). Professor Elston will also be speaking at the Discovery Center on Tues., Nov. 2, when she will give a talk about her book, *Ravensong*, on the Raven mythology among native people and also the scientific study of ravens.

North Coast

For information on the North Coast Chapter, call Christine Stanley, (503) 436-0161.

Portland

- Oct. 12, Tues. **Meeting:** Medical botanist and historian, Brian Altonen, will give a program on "Northwest Medicinal Plants, Rare and Endangered?" The meeting room is open at 6:30 P.M. for socializing and the meeting will take place at 7 P.M. in room 355 at the First United Methodist Church, 1838 SW Jefferson St., in Portland.
- Oct. 9, Sat. **Field Trip:** Mushroom hunt in the Mt. Adams area with botanist and mushroom enthusiast Kaitlin Cray. First meeting place: 9:30 A.M. at the Park and Ride just west of the Hood River Bridge on the Washington side. Second meeting place: Trout Lake Ranger Station at 10 A.M.

Siskiyou

Meeting: For information, call Susan E. Nyoka, (541) 482-2509.

Umpqua Valley

- Oct. 7, Thur. **Meeting:** Spotted owl report by Ted Schattenkirk and whitebark pine presentation. County Courthouse, Room 310, at 7:00. Call Richard Sommer at 673-3709 for more information.

Oct. 9, Sat. **Field Trip:** Crater Lake to view whitebark pine. Meet at the BLM parking lot, 777 NW Garden Valley Blvd. for 8:00 A.M. departure. Call Russ Holmes at 672-4635 for more information.

Willamette Valley

Oct. 18, Mon. **Meeting:** 7 P.M. Room 225, United Methodist Church, 600 State St NE, Salem. The program will be "A Cruise on the Peruvian Amazon" by local member Margie Willis. She will discuss the people and plants of the area.

Oct. 2, Sat. **Field Trip:** A fall color driving tour on the north Santiam Hwy. with lunch at Sisters, returning via the old McKenzie Pass Hwy. and Clear Lake cut-off (possible swim at Belknap Hot Spr.). Meet at KMart parking lot on Mission St. in Salem at 8:00 A.M. For information call G. and H. Schoppert at (503) 859-2613 or email ghschopp@hotmail.com

William Cusick

Oct. 5, Tues. **Meeting:** The William Cusick Chapter will hold our first fall meeting in La Grande on Tuesday, October 5, at 7:00 P.M., at the Forest and Range Lab, C Avenue and Gekeler Lane. We will have a dessert potluck and share our summer experiences through slides, print photos, stories or however you want. Please come - it will be fun! We can also talk about future meetings and a few items of business. Call Barbara for more info at 962-7749.

IMPORTANT NOTE TO FIELD TRIP PARTICIPANTS

Field trips take place rain or shine, so proper dress and footwear are essential. Trips may be strenuous and/or hazardous. Participation is at your own risk. Please contact the trip leader or chapter representative about difficulty, distance, and terrain to be expected on field trips. Bring water and lunch. All NPSO field trips are open to the public at no charge (other than contribution to carpool driver) and newcomers and visitors are always welcome.

NOTICE TO FIELD TRIP CHAIRS AND LEADERS

The Forest Service and other agencies have set policies limiting group size in many wilderness areas to 12. The reason is to limit human impacts on these fragile areas. Each group using wilderness areas should be no larger than 12.

POSTAL NOTICE

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They do not represent the opinions of the Native Plant Society of Oregon, unless so stated.

Looking Forward, Part 2

By Bruce Newhouse, President, NPSO

Hello, NPSO Friends and Flora Lovers!

As your new President, because most of you have no idea who I am¹, I'd like to tell you a bit about myself (but hey, if you are bored already, just skip one paragraph ahead and I'll never know!). I was born in at Good Sam² in Portland in 1955, grew up in Oregon City, then Lake Oswego through high school. My Mom and Dad and I used to go fishing up the Clackamas River and Still Creek - me and my Dad would fly fish, while my Mom poked around in the bushes admiring wildflowers, occasionally bringing home a sword fern or maidenhair fern for the garden. As I got older, I got more and more interested in my Mom's love for those ferns, and all those other plants in the woods.

Hiking with my high school buddies on Olallie Butte (near Mt. Jefferson), at the Coast, and up the Gorge, I started learning common names for plants. When I went to OSU in 1973, I foolishly opted for Forestry over Botany (probably because I didn't meet Ken Chambers when I went there with my Dad on Father-Son day³) but I ended up graduating with a pretty broad background in environmental sciences -- including botany. After county and city planning in Grants Pass and Springfield for 10 years, I broke out of my cubicle and retired from government service, and went back to my true love -- the outdoors. I've been consulting in botany, wetlands and wildlife habitat ever since, with an occasional musical sidelight as a piano player and hand percussionist.

My best friend, Dick Brainerd, joined me after a couple of years, and then we seduced Peter Zika into joining us by offering him some mid-winter vegetative grass ID opportunities, and we became Salix Associates. Peter has recently

moved on to Seattle, and Dick and I miss him a lot - our mentor, for sure. With Peter and a handful of others, we formed the Carex Working Group at OSU several years ago, and NPSO has been a great support to that effort. Since the early 1990's when I found NPSO, I've been on the Emerald Chapter board most of the time, and recently, have been an at-large state board member. I feel very lucky that my work and my favorite pastime are the same thing. My partner, Peg (a wildlife biologist), is very tolerant of all my NPSO obligations and other participation on city committees here in Eugene. (She laughs at me when we go for a weekend hike -- I'm always looking for rare plants and making a plant list.) We live in a perfectly small house, with almost all-local-native landscaping. We confess to metamorphosing into myco-heads in the fall, and are co-founding members of the brand new Cascade Mycological Society.

I hope that wasn't offensively long and boring. In conclusion, I just want to add that I'm an Oregon boy, through and through (well, except for the fact I hate cows and their impacts on the environment). I love native Oregon, and am constantly astonished by us humans. We know how to live lightly, but we refuse to do it! Strange bunch we are. There is so much beauty and genius and spirit in our native Oregon biota, and such blatant disregard for it by the general public. I'm amazed, but I refuse to give up, and I hope you feel the same. I'll confess to being depressed by it sometimes, but remembering to be inspired simply by the beauty of nature keeps me a little bit sane⁴.

In yet another conclusion, I hope our members and our board can be inspired to do more and more to educate the vast, growing majority of Oregonians who have little or no knowledge about our natural heritage. Television is getting more boring and addicting by the year, and in contrast, NPSO offers real rewards! We are a happenin' bunch here, folks, and we want you,

we need you, to hop on this train! Our magic number 2000 is here -- it's our millennium! Let's begin it by showing Oregonians what a wonderful natural world we are living in, and invite, nay, drag them out to pull some ivy and knapweed, and collect some native plant seeds to put in their place (followed by a some food and drink to celebrate). It doesn't get any more real than that. Let's all renew our efforts to take more people out on field trips and work parties, to make more and jazzier educational displays and take them to as many events as possible, to make our web site exciting, beautiful and educational, and to invigorate NPSO! Let's write more letters and volunteer for chapter and state board offices. More political involvement is needed to stop "business as usual" and protect some native habitat in your chapter's area. A lot of environmental destruction occurs because people just don't know any better, and if we can get the word out, they will do the right thing.

Send me your ideas (newhouse@efn.org) and volunteer with your chapter. We need your ideas posted to the NPSO list-serve, too -- go to the web page to sign up.

Since my pleading last month didn't draw even a nibble, I'll have to try again: PLEASE folks! Somebody out there would make a great NPSO treasurer. Please consider that you might be the one. Our Vice-President is volunteering to fill the position for a short time, so we need your help soon!

Additionally, Stu Garrett requested a new East Side Conservation Chair some months ago to relieve him after a number of years in that position. Is there somebody out there that could take that one on? I'm sure there is! And I'm sure Stu would help you ease into the position.

I heretofore promise to be less long-winded if you will promise to make out a big fat check to the Oregon Flora Project right now.

Send checks for the Flora Project to:

Scott Sundberg
Oregon Flora Project
Department of Botany and Plant Pathology
Oregon State University
Corvallis, OR 97331-2902

Endnotes

¹ And frankly, it is kind of new territory for me, too...

² That would be the hospital, not the RV club...

³ And, possibly because the electron microscope was just a little bit scary. (Hey, I was a freshman!)

⁴ Occasionally, a glass of cabernet helps, too.

NPSO Items for Sale

Oregon's Rare Wildflower Poster depicts Punchbowl Falls and three of the Columbia River Gorge's endemic wildflowers. Text on the back describes the natural history of the Gorge and the mission of the NPSO. Available from Stu Garrett, 21663 Paloma Dr., Bend, OR 97701 (541) 389-6981. Individuals may order posters at \$12 each, plus \$3 per order for shipping. Posters are mailed in tubes. Chapter treasurers may contact Stu for wholesale prices to chapters.

NPSO's Original Wildflower Poster depicts 13 Oregon wildflowers in a striking artist's rendition. Soon to be a collector's item. Available from Stephanie Schulz, 84603 Bristow Rd., Pleasant Hill, OR 97455, \$5 each, plus \$3 per order for shipping. Posters are mailed in tubes.

NPSO Membership Directory lists names, addresses, phone numbers of NPSO members (April 1999). Available for \$3 from Jan Dobak, 2584 Xavier St., Portland, OR 97210.

Seth Bond's Summer Intern Report

The following is the first in a series of four articles in which NPSO/ODA interns discuss their activities during the 1999 field season. Interns were selected from a pool of applicants and worked with scientists from the Oregon Department of Agriculture/OSU Plant Conservation Biology Program to carry out research related to threatened and endangered species in Oregon. Project locations ranged from coastal beaches to serpentines of southwestern Oregon to the eastside's high desert. Interns were jointly funded by NPSO, state, and federal dollars and plan to use their experience to further their careers in botany and biology. What follows here is Seth Bond's article on two endangered plants of Willamette Valley prairies. Thanks again to NPSO for contributing to botanical education and work experience.

Tom Kaye
Plant Conservation Biology Program
Oregon Department of Agriculture

My experience this summer as an NPSO/ODA intern has been unforgettable. In the past four months, I have traveled thousands of miles, observed many different plants and many different ecosystems. I have learned a lot about Oregon's native and non-native species, considering I knew almost nothing about the state's botanical content prior to the internship. With this tiny bit of knowledge, I feel more at home in Oregon and I feel my connection to the natural environment growing. In my travels through the state I saw some of the most magnificent feats of nature. I also saw areas that have been destroyed, abused and possibly forever altered by mankind.

It seems that I have spent a large portion of the past four months driving (I had no idea that botanists liked to drive so much). In May, I started my summer behind the wheel in deciduous forests of southern Ohio where I will return at the end of August. Between these two points there have been many journeys throughout Oregon in search of knowledge about rare and endangered plants. Such journeys took us to the Oregon dunes to find *Abronia umbellata* ssp. *breviflora*, the pink

sandverbena. We traveled to the high desert in the east to monitor *Haplopappus radiatus*, the Snake River golden weed. Later, we visited the Illinois Valley to survey *Lomatium cookii*, Cook's desert parsley. Another trip took us to the highlands of southern Oregon in search of *Frasera umpquaensis*, the Umpqua swertia. We took safaris into the western Oregon mountains for *Cimicifuga elata*, the tall bugbane. Voyages to the upland prairies of the Willamette Valley gave us contact with *Lupinus sulphureus* ssp. *kincaidii*, Kincaid's lupine and *Erigeron decumbens*, the Willamette daisy. The current condition of Kincaid's lupine and the Willamette daisy serve to point out some interesting issues in contemporary conservation biology.

Kincaid's lupine is usually limited to isolated remnants of native upland prairie in western parts of Oregon. Though this species of lupine is found in prairie habitat, it is not limited to these areas. Kincaid's lupine is also found in well-developed soils of southern Oregon growing along side oak trees that are close to serpentine soils. The species is known to exist likewise in southwestern Washington. The future of Kincaid's lupine is of concern for two reasons. First, this lupine is in danger of becoming extinct. It is currently a candidate for protection under the federal Endangered Species Act. Second, it is the host plant for a very rare butterfly endemic to the upland prairie habitat. *Icaricia icarioides fenderii*, Fender's blue butterfly, seeks out this species of lupine to oviposit in early summer. Kincaid's lupine later serves as food for the developing Fender's blue larva. Since this particular species of butterfly prefers *L. sulphureus* ssp. *kincaidii* as the place to renew its population, the extinction of this plant would most likely cause the extinction of the Fender's blue butterfly. Therefore *Icaricia icarioides fenderii* is also a candidate for protection under the Endangered Species Act. Oregon state law already rightfully considers both plant and butterfly endangered species.

Erigeron decumbens var. *decumbens*, the Willamette daisy, is indigenous to the upland prairie and seasonal wetland areas of western Oregon. Its distribution is now limited to two areas in the Willamette Valley. These areas are unplowed bottomlands composed of heavy clay soils that support several species of bunch grass such as *Deschampsia cespitosa*, tufted hair grass. Willamette daisy may prove to be a useful tool in understanding evolutionary, biotic, and ecological interrelationships within the seasonal wetland and prairie ecosystem. The species is currently proposed for listing as an endangered species under the Endangered Species Act, and it is already considered by state law to be endangered.

The main problem facing most of our rare or endangered species is the destruction of their habitat. This also applies to the case of Kincaid's lupine and Willamette daisy. Before European settlement, the Willamette Valley consisted mostly of grassland prairies and scattered Oak savannas. Native Americans maintained these open prairies using fire to suppress the woody plants and promote the growth of the herbaceous plants. This environment, which relied on fire disturbance to maintain its ecological consistency, was ideal habitat for Kincaid's lupine and Willamette daisy. The mixed wetland/upland communities also counted on seasonal flooding to maintain stability. European settlement brought agriculture, urban and industrial development, and the suppression of fire and floods. Due to the absence of natural disturbance, the small parcels of grassland prairie that were not cultivated or developed succumbed to the invasion of woody and non-native plants. These woody invaders, such as *Rubus discolor*, Himalayan blackberry; *Cytisus scoparius*, Scot's broom (both introduced) and *Fraxinus latifolia*, Oregon ash (native), use a lion's share of soil nutrients and create dense canopy cover, thus starving smaller plants of sunlight. Other non-native plants such as *Arrhenatherum elatius*, tall oatgrass, were introduced by settlers

for agriculture or as means to stabilize soil for development. These non-native species often have such aggressive reproductive strategies that they can dominate plant communities and extinguish the native vegetation. Today, agricultural herbicides and urban development add to the list of habitat destroyers. With unnatural, human-induced limiting factors, the distribution of many native plants remains limited to small, scattered populations.

Years of ignorance and environmental abuse have set the stage for population decline and species extermination. Our neglect or lack of respect for the earth, our home, has over time created this potential environmental disaster. It is evident that if we humans do not intervene in the cycle of environmental degradation we have initiated, we may lose many species to extinction. Extinction of a species creates holes in the natural make-up of an ecosystem. The absence of key species over time will cause the disappearance of other species. This chain reaction could cripple the natural balance of the environment.

We must act to ensure that each remaining species has the opportunity to continue its natural evolutionary cycle. In short, protecting isolated fragments of aging habitat is not enough. We must strive to learn about our environment and use this knowledge to restore and maintain it. Today's conservation biologists are doing just that. In our fieldwork, we collected demographic and environmental information about plant populations in order to identify population trends, understand ecological interrelationships, and learn about the variables and limiting factors in a community. This base-line information will guide effective habitat restoration.

The success of such endeavors, however depends on a collective consciousness about the human's place in nature. Only when we as a society know that the Earth does not belong to us can we know that we belong to the Earth.

We must realize that we are merely components in the natural cycle of nature. Humans have a choice to either harmonize with this natural cycle or victimize themselves by seeking to manipulate it. By living on this planet, it is our obligation to take care of it. We need to assume the responsibility that comes with the privilege of life. If we don't, who will?

I would like to thank the Native Plant Society of Oregon, the Oregon Department of Agriculture and any other responsible parties for this opportunity to work with some really great people and learn some really interesting things. I would also like to thank the Botany Department at OSU, Tom Kaye, and my fellow botanizers for one great summer.

Seth Bond
1999 NPSO/ODA
Plant Conservation Biology Program Intern

Mt. Pisgah Arboretum Events

Mushrooming at the Mountain: An intensive class for beginning "shroomers" at Mount Pisgah Arboretum. Led by Maggie Rogers, co-founder of *Mushroom, The Journal of Wild Mushrooming*. Saturday, October 24, 1999, 9:30 - 4 pm. Learn the hows and whys of mushrooming practices and traditions and become acquainted with 20-50 fall varieties. Course will include the life cycle of mushrooms, michorhizal relationships, the ethics of picking, and even a bit of cooking and folklore. \$30 (\$25 Arboretum Members). To register or for more information call 747-1504

Fall Fruits & Foliage Walk at Mt. Pisgah Arboretum: October 23, Sat., 10 am - noon. Led by Dr. Rhoda Love. Come take a peek at the Arboretum's autumn colors naturally on display as the seasons change. Learn about the many botanical changes that occur this time of year, and pick up some identification techniques. Bring a hand lens if you have one! \$3 MPA

members, \$5 non-members. Meet at the Arboretum Visitor Center. Call 747-1504 for details.

Emerald Chapter Planning Moss and Lichen Field Trips for Fall and Winter

Summer is over. The flowers will soon be gone. Is there anything of interest to plant lovers in the wet fall and winter woods? You bet there is! This is the time when the mosses and lichens are at their most beautiful and interesting! They luxuriate in the abundance of moisture provided by the rains after hanging on through the dry summer in a state of near dormancy.

To help us appreciate this splendor, the Emerald Chapter is planning a series of field trips from October to March which emphasize the bryophytes and lichens. See the newsletter calendar for October and November trips. For more information or to volunteer to lead a trip (please!) or to suggest someone else who could lead a trip, contact Peggy Robinson (peggyr@pond.net, 541-744-0439). Please also contact Peggy for recommended references on Northwest mosses and lichens.

Conference Announcement: Conservation of Washington Rare Plants and Ecosystems

The Washington Rare Plant Conservation Program is organizing a two-day conference to discuss issues related specifically to the conservation and management of rare plants—vascular and nonvascular—and rare ecosystems in Washington. The conference is scheduled for April 17-18, 2000, and will be held at the University of Washington's Center for Urban Horticulture in Seattle. For more information (including submission guidelines for papers and posters), please contact Sarah Reichard at (206) 616-5020, reichard@u.washington.edu.



An Invitation to Join Friends of the Oregon Flora Project

The Oregon Flora Project continues to make progress. A demonstration of the electronic plant Atlas and a checklist of Oregon sedges, rushes, lilies and orchids are now being prepared. The Asteraceae Checklist is still available. We of the Friends Committee are grateful for the sponsorship of NPSO as we work to raise funds to produce the new Flora of Oregon. Your donation of any size sent to the address below will help this important effort and make you a Friend of the Oregon Flora Project.

The Friends Committee has been active. Our brochure reached all NPSO members in January and we thank NPSOers for their generous donations. We have placed displays at several flower shows in May. We are now expanding our campaign to reach new individual, foundation, and corporate contributors for grants to support key staff positions. We continue to need enthusiastic folks to help us develop strategies. If you would like to help please contact Keli Kuykendall at (541) 758-8409 (kuykendk@peak.org) or write her at the Friends address.

Please make checks payable to:

Native Plant Society of Oregon
and mail to:

Friends of the Oregon Flora Project
P.O. Box 402
Corvallis, OR 97339-0402

Fellows Awards and Nominations

In 1998 and 1999, a total of five of our members were awarded the highest honor of our Society, "Fellow of the Native Plant Society of Oregon." In 1998 it was awarded to Ruth Hansen, John Robotham, and Keith Chamberlain. At the 1999 Annual Meeting, Wilbur Bluhm and Kenton Chambers were honored. The Fellows Committee is now prepared to receive nominations for the year 2000.

Nominations may be made by Chapters, individual members or the State Board under the following guidelines:

- Nominees will be members who have given outstanding service to the Native Plant Society of Oregon (NPSO). They may have been instrumental in establishing the State Organization or a Chapter, or produced distinguished editorial contributions, or served as an inspirational teacher of botany. They may have contributed in other ways valuable work relating to native plants or to the goals of the Native Plant Society of Oregon.

- The Nominating group or person should prepare a formal letter of nomination for consideration by the NPSO Fellows Committee. The letter should include detailed biographical and background information about the nominee.
- After review of the nominating letter, the Committee will make a recommendation to the State Board, if the nomination is approved. Acceptance as Fellows will be by vote of the Board of Directors at a State Board Meeting. Fellows will receive a framed plaque and be featured in a *Kalmiopsis* article. A photo of the nominee should be provided by the nominator for the article.

The NPSO Fellows committee asks that letters of nomination for the Year 2000 be sent by December 1 to Veva Stansell, PO Box 6077, Pistol River, OR 97444-1575. The Committee will present nominations to the Board of Directors at the January Board Meeting.

Submitted by Veva Stansell, a member of the Fellows Committee.

Highlights of the State Board Meeting

July 31 and August 1, 1999

White Branch Youth Camp, McKenzie River

Saturday night, following the banquet, the newly-elected Fellows of the Native Plant Society of Oregon, Wilbur Bluhm and Kenton Chambers, were introduced by Veva Stansell and presented with their awards. Both then addressed the group praising NPSO and its activities. Following this ceremony, retiring officers and board members were thanked and new officers sworn in. The Saturday program ended with a slide presentation by author Bill Sullivan of Eugene who spoke to us of wildflower hikes in the Cascades -- many of which are featured in his latest book, "Hiking Oregon History."

The formal Board of Directors meeting got under way at 9:00 am Saturday morning with newly-elected President Bruce Newhouse presiding. Marcia Cutler, 1999 Annual Meeting Chair and her Emerald Chapter helpers as well as the White Branch staff were thanked by the Board for a fine Annual Meeting. Next year's Annual Meeting will be hosted by High Desert Chapter.

A new Treasurer has not yet been found to replace retiring Jean France. VP Mike McKeag has pledged to watch over the Society's finances until a volunteer comes forward.

An Oregon Flora report was submitted by Scott Sundberg who indicated that the trees of Oregon and members of the genus *Ceanothus* are presently being mapped. The next portion of the Vascular Plant Checklist to be published will be the monocots other than Poaceae. All 16 issues of the Oregon Flora Newsletter are now on-line at <http://www.orst.edu/dept/botany/herbarium>. Friends of the Oregon Flora now has 96 members and contributions have passed the \$6,000 mark. Jerry Igo is working on an educational video about the Flora Project. He has issued a challenge to all NPSO members to contribute \$10 per person per year to the Flora

Project beyond any larger amounts donated by Chapters or individuals. His challenge has appeared in the Bulletin. NPSO statewide membership now stands at 920.

Richard Greenough (bulletin@npsoregon.org) was thanked for taking over editorship of the Bulletin. His first issue appeared this August. John Robotham was thanked for his 6 years of fine work as Bulletin editor. Judy Castle (webmaster@npsoregon.org) is our new web mistress. The Board asked each chapter to send Judy a chapter profile for the web site.

Dan Luoma will head the nominating committee to choose candidates for officers and at-large board positions for the year 2000. All Chapters are asked to begin at once to recruit candidates for state office and send their names to Dan at luomad@fsl.orst.edu

The board voted to add NPSO's name to a petition being circulated by the California Native Plant Society requesting that the Federal Endangered Species Act be modified to give endangered plants protection on non-federal lands equal to that afforded endangered animals.

This year's \$1,000 Jean David Memorial Scholarship went to Puja Bichel of OSU. Puja is a former LCC student of Gail Baker and Rhoda Love.

Schedule of NPSO Annual meetings in the 21st century: Year 200—High Desert Chapter; Year 2001--Corvallis Chapter; Year 2002 -- Siskiyou Chapter; Year 2003 -- Portland Chapter.

Most Chapters submitted reports. All those reporting have been busy with meetings, field trips, conservation efforts and other worthwhile activities.

Next Board of Directors meeting will be Saturday, October 2, in Corvallis at 10:00 am. Reminder: All Chapter Presidents are voting members of our Board.

NATIVE PLANT SOCIETY OF OREGON MEMBERSHIP FORM

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Is this a change of address?
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Please make checks for dues and contributions payable to:
NATIVE PLANT SOCIETY OF OREGON

DUES include monthly *Bulletin* and *Kalmiopsis* when published. Membership is for calendar year. January to December.
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CONTRIBUTIONS to NPSO are tax deductible.
Jean Davis Memorial Scholarship Fund \$ _____
Leighton Ho Memorial Field Botany Award Fund \$ _____
Rare and Endangered Plant Fund \$ _____
Membership is for the calendar year.
New memberships enrolled after September 1 include the following year.

Send completed form and full remittance to:
Jan Dobak, NPSO Membership Chair, 2584 NW Savier St., Portland, OR 97210-2412
Membership in the Native Plant Society of Oregon is open to all.

Membership applications, renewals and change of address (include old address) should be sent to the Membership Chair

STATE OFFICERS

DIRECTORS (to 6/2000)..... Dan Luoma, Ben Fawver, Steven Jessup
DIRECTORS (to 6/2001)..... Dave Dobak, Esther McEvoy, Veva Stansell
PRESIDENT..... Bruce Newhouse 2525 Potter St., Eugene, OR 97211; (541) 343-2364
IMMEDIATE PAST PRESIDENT Michael Fahey.....
VICE PRESIDENT Michael McKeag..... 7461 SW 184th Pl., Aloha, OR 97007-5740; (503) 642-3965
SECRETARY Rhoda Love..... 393 Fulvue Drive, Eugene, OR 97405; (541) 345-6241
TREASURER Position Vacant

CHAPTER PRESIDENTS

BLUE MOUNTAIN (Pendleton) Jerry Baker..... 58840 Bar M Lane, Adams, OR 97810-3003; (541) 566-3381
CHEAHMILL Kareen B. Sturgeon..... 1135 Winterwood Loop, McMinnville, OR 97128; (503) 472-0866
CORVALLIS..... Steve Northway..... 24073 Decker Rd., Corvallis 97333-9510; (541) 929-5375
EMERALD (Eugene) Marcia Cutler 835 W. 24th Ave, Eugene, OR 97405-2454; (541) 687-2559
HIGH DESERT (Bend) Stu Garrett..... 1501 NE Medical Center Dr., Bend, OR 97701; (541) 389-6981
KLAMATH BASIN David Lebo..... 642 Front St., Klamath Falls, OR 97601-1914; (541) 850-9770
MID-COLUMBIA..... Jerry Igo P.O. Box 603, Mosier, OR 97040
NORTH COAST Christine Stanley P.O. Box 201, Cannon Beach, OR 97110-0201; (503) 436-0161
PORTLAND..... Shane Latimer 1605 SE 36th Ave., #3, Portland, OR 97214-5123; (503) 232-7405
SISKIYOU..... Jim Duncan & Elaine Plaisance 692 B St., Ashland, OR 97520-2026; (541) 482-7629
UMPQUA VALLEY (Roseburg) Richard Sommer 240 Vineyard Lane, Roseburg, OR 97470; (541) 673-3709
WILLAMETTE VALLEY (Salem)..... Walt Yungen 2020 Center St. NE, Apt. 32, Salem, OR 97301; (503) 581-9511
WM CUSICK (La Grande) Frazier Nichol c/o Dick Kenton, 1805 U Ave., La Grande, OR 97850; (541) 963-7870

STATE COMMITTEE CHAIRS

EDUCATION Jerry Igo P.O. Box 603, Mosier, OR 97040
RARE AND ENDANGERED Bruce H. Rittenhouse 550 Fillmore, Coos Bay, 97420-2811; w:756-0100;h:(541) 888-9328
CONSERVATION, EAST SIDE..... Stu Garrett..... 1501 NE Medical Center Dr., Bend 97701; (541) 389-6981
CONSERVATION, WEST SIDE..... Steven L. Jessup..... 208 Harrison St., Ashland, OR 97520-2920; (541) 552-6804
LEGISLATIVE Position vacant.....
MEMBERSHIP..... Jan Dobak 2584 NW Savier St., Portland 97210-2412; (503) 248-9242
BUDGETS AND GRANTS..... Dan Luoma..... 3740 NW Harrison, Corvallis 97330; (541) 752-8860

PUBLICATIONS

BULLETIN EDITOR Richard Greenough..... bulletin@npsoregon.org; (503) 350-2360
..... 10765 SW Butner Rd., Apt. 23, Portland, OR 97225
KALMIOPSIS EDITOR Linda Ann Vorobik RR 1 Box 1964, Lopez Island, WA 98261-9528; (360) 468-3188
WEBMASTER Judy Castle..... 5300 SE Baseline Rd., Apt. 166, Hillsboro, OR 97123; (503) 648-2222

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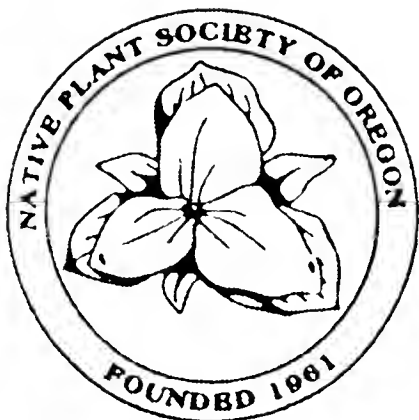
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NATIVE PLANT SOCIETY OF OREGON
World Wide Web: <http://www.NPSOOregon.org>
General Business Address: P.O. Box 902, Eugene, OR 97440
or correspond directly with the Officers and Committee Chairs listed on the inside back page.
Membership Inquiries Only: Jan Dobak, 2584 NW Savier St., Portland, OR 97210-2412



Bulletin of the Native Plant Society of Oregon

Dedicated to the enjoyment, conservation, and study
of Oregon's native vegetation

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State News

Bulletin Editor Needed: If you are interested in helping NPSO as our *Bulletin* editor, please contact Bruce Newhouse at (541) 343-2364, newhouse@efn.org.

Nov. 13, Sat.

Field Trip: A special tour for NPSO members of The Oregon Garden at Silverton. We will meet at 10:00 A.M. at Salem, or 10:30 A.M. at The Oregon Garden. The tour will end by 12:00 noon. Lunch is on your own.

To caravan to The Oregon Garden, take the I-5 Keizer exit on north side of Salem. Coming from the north, after exiting, turn right to a parking area, about 200 yards, on the left just before crossing the railroad track. Coming from the south after exiting, turn left and continue through a second traffic light to a parking area, about 200 yards after second traffic light, on the left just before crossing the railroad track.

It will be helpful, though not necessary, to indicate your interest in. Contact Wilbur Bluhm, phone 503-393-2934 or e-mail wbluhm@juno.com This will be an opportunity to see the Garden, now under major construction, prior to its informal opening next year. The Oregon Garden, when completed, will feature a number of gardens within the Garden. Included are an oak savanna, wetlands, children's garden, and other more formal gardens. Use of effluent water in a tertiary treatment will enable a number of major water features within the Garden.

Jan 22, Sat.

Board Meeting: 10 A.M. Leach Garden, Portland.

Chapter News

Blue Mountain

Nov. 1, Mon.

Meeting: 7 P.M. Small Business Development Center, SE 1st & Dorian, Pendleton. Program to be announced. Come and swap stories from the summer.

Dec. 6, Mon.

Meeting: 7 P.M. See December *Bulletin* for program.

Cheahmill

- Nov. 18, Thur. **Meeting:** 7 P.M., McMinnville Public Library, Carnegie Room, 225 N.W. Adams. "Natural History, Decline, and Conservation of the Willamette Valley Checkermallows." Our speaker, Steve Gisler, is a botanist who works for the Oregon Department of Agriculture's Native Plant Conservation Program. He is also working on Master's project at Oregon State University, studying the *Sidalcea* (checkermallows). Program will start immediately after a short business meeting. **Please note, the monthly meeting is a week earlier than usual because of Thanksgiving.**

Corvallis

- Nov. 6, Sat. **Workshop:** Propagation Workshop of Natives-Cuttings, Rhizomes, and Seeds from 10 am to 1 P.M. Please bring any native seeds or starts you have collected and we will pot them up for the next spring garden sale. If interested, contact Esther McEvoy, (541) 754-0893.
- Nov. 8, Mon. **Meeting:** Rhoda Love will give a talk entitled "Aged Botanist Speaks on Plants: The Grand Old Man of Northwest Botany-Louis F. Henderson 1853-1942." Meet at 7:30 P.M. at the Avery House, Avery Park. For more information, please contact Esther McEvoy, (541) 754-0893.

Emerald (20th Anniversary Year)

- Nov. 6, 13, 20 **Work Parties:** Three Saturdays, 9 A.M.-12 noon "De-Vine Intervention" at Hendricks Park - English Ivy pulling!!! Meet at the picnic area parking lot in the Park (the lot is to the right at the top of Summit Drive). Bring rain gear, warm boots, water and leather gloves. For more info, call Bruce Newhouse at 343-2364.
- Nov. 7, Sun. **Field trip:** Sixth Annual Forest Fungal Foray with Peg Boulay and Bruce Newhouse. Meet at 9 a.m. at the South Eugene High School parking lot, 19th and Patterson. Pick up a free personal use mushroom permit before hand at the Willamette National Forest Headquarters during weekday working hours. Bring waterproof boots and rain gear, a basket or a bucket, a watch, a lunch, and a field guide if you have one. We'll decide which way we will go (Cascades or Coast) at the time and place of the rendezvous. Trip limited to 20, call 343-2364 to pre-register. Co-sponsored by the brand new Cascade Mycological Society!
- Nov. 13, Sat. **Field Trip:** Bicycle Bryology (and Lichenology) in Alton Baker Park led by Dr. Dave Wagner. Meet at 1:00 P.M. at Autzen Bike Bridge with bike and required helmet. Dress for rain, bring lunch and hand lens. Trip will end by 4 P.M. For more info, call Peggy Robinson at 744-0439.
- Nov. 22, Mon. **Meeting:** 7:30 p.m. Room 110, Science Building, LCC main campus. Dr. Nan Vance will talk on "Important Species which provide non-timber forest products -

what are the issues of sustainability?". Directions: Due to construction around the LCC Science building where our meetings are held, you will have to follow a new access route. Please allow a few min. extra time to get to our meeting room. Park in the southeast corner of the south parking lot, walk down the pathway at east end of parking lot to east end of Science building.

Dec. 13, Mon. **Holiday Gathering:** 7:30 p.m. Watch for details in December *Bulletin*.

High Desert

For information on the High Desert Chapter, call Stu Garrett at 389-6981.

Klamath Basin

For information on the Klamath Basin Chapter, call David Lebo at 883-8393.

Mid-Columbia

Nov. 3, Wed. **Social and Meeting:** Come early (7 P.M.) to socialize in the Discovery Center Café, The Dalles. Bring cookies or snacks or just yourself. Meeting begins at 7:30 P.M. in the Discovery Center Theater. We have a very special guest speaker this month: Catherine Elston, Professor of History at the University of Northern Arizona, who has worked closely with the Hopi and Navajo for years. She will tell us about medicinal and ceremonial plants of the Navajo. Professor Elston will also be speaking at the Discovery Center on Tues., Nov. 2, about her book, *Ravensong*, on raven mythology among native people and the scientific study of ravens..

Dec. 1, Wed. **Meeting:** 7:30 P.M. in Discovery Center Theater. Bill Wyler, Washington Dept. of Fish and Wildlife is doing restoration projects on the Little Klickitat River and Swale Creek designed to improve fish runs and will give a progress report.

North Coast

For information on the North Coast Chapter, call Christine Stanley, (503) 436-0161.

Portland

Nov. 9, Tues. **Meeting:** Ethnobotanist, Margaret Matthewson, will give a "General Overview of Oregon Ethnobotany." Her program will emphasize nonmedicinal foods, baskets and other uses of native plants. The meeting will be held in the Fireside Room (#355) of the First United Methodist Church located at 1838 SW Jefferson St., in Portland. The room is open at 6:30 P.M. for socializing and the meeting will begin at 7 P.M.

Siskiyou

Nov. 18, Thur. **Meeting:** 7:30 P.M. Room 171 of the Science Bldg., Southern Oregon Univ., Ashland. Bob Budesá from the Medford office of the BLM will give a talk about the issues surrounding non-native species on our public lands.

Umpqua Valley

- Nov. 10, Wed. **Meeting:** Meeting scheduled for Wednesday because of the Veteran's Day Holiday. Lisa Wolf and her husband Tom will speak on their year long hike through Oregon, Idaho, Montana, New Mexico and Arizona. 7:00 PM, Room 310, Douglas County Courthouse.
- Nov. 13, Sat. **Field Trip:** Will view lichens, mosses, and mushrooms at a destination to be announced. Meet at BLM parking lot, 777 NW Garden Valley Blvd., Roseburg for 8:00 departure.

Willamette Valley

- Nov. 15, Mon. **Meeting:** 7PM room 225, United Methodist Church, 600 State St NE, Salem. The program will be 'The Ceanothus of Oregon' given by Dr. Clifford Schmidt of Salem. Dr. Schmidt is an authority on this group of plants, having written the section on Ceanothus for both the Jepson Manual and the Flora of North America. He is retired from the Botany staff of San Jose State University. There will be an informal work session on future programs, etc. prior to the program(meet about 6:30PM).

William Cusick

- Nov. 2, Tues. **Meeting:** 7:00-9:00 p.m. at the Forest and Range Lab, Gekeler Lane and C Avenue in La Grande. Liam O'Callaghan, biologist from Lostine who is currently working on a wetland restoration on the Wallowa River will give a talk on the vision and challenges of wetland restoration, including the difficulties of determining which native plants really were there to begin with. Liam's varied experience, including working with the U.S. Forest Service and Peace Corps, will make for an interesting evening! Contact Barbara Russell for more information at (541) 962-7749.

IMPORTANT NOTE TO FIELD TRIP PARTICIPANTS

Field trips take place rain or shine, so proper dress and footwear are essential. Trips may be strenuous and/or hazardous. Participation is at your own risk. Please contact the trip leader or chapter representative about difficulty, distance, and terrain to be expected on field trips. Bring water and lunch. All NPSO field trips are open to the public at no charge (other than contribution to carpool driver) and newcomers and visitors are always welcome.

NOTICE TO FIELD TRIP CHAIRS AND LEADERS

The Forest Service and other agencies have set policies limiting group size in many wilderness areas to 12. The reason is to limit human impacts on these fragile areas. Each group using wilderness areas should be no larger than 12.

POSTAL NOTICE

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Opinions expressed in this publication are those of the authors of the articles.
They do not represent the opinions of the Native Plant Society of Oregon, unless so stated.

Memories of White Branch

by Marcia Cutler, 1999 Annual Meeting Chair

Emerald Chapter began planning the 1999 Annual Meeting in the spring of 1998, and decided to go to the High Cascades, to add a Friday field trip and to try and make the weekend very affordable. Rhoda Love coined our motto "Get high the last summer of the millennium" and we were off and running. We found that group camps in the McKenzie Bridge area had precious few openings and felt lucky to score Camp White Branch, with its CCC built lodge and 17 acres of old growth, waterfalls and meadows, for the end of July. We worried about flowers being all dried up by then and about not having White Branch's minimum 50 registrants (and many other things). But we advertised early and wide, and planned enthusiastically and by the end of June, we began to worry about the snow gate never opening and whether all the registrants would find a mattress, a parking space and enough food and how we would ever manage to register 120+ people between 3 and 6 p.m. Friday.

The big weekend approached, the snowgate opened (the day before!), the weather warmed up, the sun shined, Bruce Newhouse and his wonderful field trip leaders were able to reschedule the high mountain trips, Gail Baker and helpers filled the lodge with beautiful flowers donated by Kelly O'Neill, Justin Harris and other Emeraldites set everything up, Sylvia Giustina's crew registered all the attendees without the dreaded 'crunch' occurring, and even the mosquitoes stayed away from the Camp! (but not, I hear, some of the field trips.)

We had four half-day field trips on Friday and Charlene Simpson put together a social with a walk to the White Branch waterfall, a cold buffet, a delightful Botany Sing-a-long with Emily Fox, and a dynamite Cascades flower slide show by Phil Warner and Dale McBride.

On Saturday we had several field trips, a spinach lasagna banquet, new state officers induction, honoring of the Fellows Kenton Chambers and Wilbur Bluhm, and an exciting slide-illustrated talk by William Sullivan. Sunday brought some half-day field trips and the State Board meeting.

Many people worked many, many hours for us. The White Branch staff provided everything we asked for and more - we were especially grateful for all the yummy food and the fresh fruits and vegetables. We had 145-plus attendees, which broke the previous Annual Meeting record, we covered our expenses and people found a profusion of flowers on the field trips, including ones they'd never seen before.

I asked the Emerald Board, the Annual Meeting Committee and the field trip leaders to jot down their favorite memories and here are some of them. If these memories inspire any of you to write something, please send them to me and I'll put them together for "More Memories of White Branch."

Charlene Simpson, Emerald: "The astonishing attendance (broke all prior Annual Meeting records); the many new faces; the gorgeous weather; outstanding programs and enthusiastic audience response both Friday night and Saturday night; the accommodation and graciousness of Camp personnel."

Rhoda Love, Emerald: "I most enjoyed a quiet Saturday afternoon in the shade chatting with a most amusing man and brilliant conversationalist, our retiring Bulletin editor, John Robotham. John didn't reveal his age but remembers seeing Lindbergh when the latter returned from his history-making non-stop flight across the Atlantic. John saw his first lady slipper orchid in 1930. He recalls a large pickerel which got away circa 1934. He was with the U. S. Air Corps, stationed in Brazil during WWII. For 40 years he was a librarian at

the New York Public Library. He implied to me that many librarians have an impressive capacity for drink. He retired to Oregon in 1990, joined NPSO in 1992 and was Bulletin editor for 6 years from '93 to '99. Quite a guy!"

Gail Baker, Emerald: "Emily Fox and her botanical repertoire entertained the crowd on Friday evening (with a Calypso orchid song sung to a calypso beat and a revival of Herm Fitz's song "The Four Important Parts of a Flower" among many others. Dining room floral displays, supplied by Kelly O'Neil, added to the festive atmosphere."

David Wagner, Emerald, Quaking Aspen Swamp field trip leader: "I was with the group that went into Quaking Aspen Swamp. The high point of the day was certainly the discovery of big patches of sundews, *Drosera rotundifolia*. We were happy to find it on the north side of the pond, so one doesn't have to wade the stream to see it. Another thing we noticed that might be of interest was the presence of what appeared to be *Cypripedium montanum* stems, the tops eaten off by deer. We couldn't be sure that they were the orchid because the flowers were gone. And because the flowers were gone, we discussed the idea that one of the reasons the lady slipper has become rare is because the increasing deer population of the last century has led to the decline of orchids they like to eat."

Stu Garrett, High Desert, Newberry Volcano (nee Mt. Bachelor) field trip leader: "My memory is of a nearly cloudless view of the Cascades, the Crater Lake area, Hart Mountain, the Fort Rock Valley, the Blue Mountains, the Deschutes Basin, and the Three Sisters from the summit of Paulina Peak. Another highlight was finding a new species to add to the list in Newberry Meadow (a *Sisyrinchium*) and seeing rare Botrychiums at the Meadow and on The Dome. All of this with an enthusiastic and knowledgeable group!"

Bruce Newhouse, Emerald: "As field trip coordinator, my biggest memory has to be the snowpack. As the time drew nearer and nearer, we all had doubts, but just couldn't believe it would be a problem. Then after we did our reconnaissance the weekend before the meeting, we found it was true: four trips had to be instantly rescheduled -- after months of work getting everything in place, and having overflowing registration for the trips! Thanks to flexible trip leaders, and flexible meeting attendees, everything went smoothly, and we found a couple of great new sites for additional future trips, too."

Sylvia Giustina, Emerald : "I was surprised and pleased that registration flowed with such unanticipated ease given the numbers. Thinking it over, I attribute it in good part to the fact that name tags were printed in advance. Hence there was no bottle neck at the registration table with people writing out their own tags -- a belated, much deserved thanks to Justin Harris for the hours he put in on this project. I thoroughly enjoyed Wilbur Bluhm's field trip to the potholes. The varieties of flowers in the fen, i.e., swamp with running water as opposed to stagnant water, was both unexpected and illuminating for my gardening purposes: *Pedicularis groenlandica*, *Viola palustris*, *Kalmia microphylla*, *Habenaria saccata* and even *Dodecatheon jeffreyi*. Wilbur's expertise and genteel manner put the icing on the cake as well as adding some essential ingredients to the cake itself."

Marcia Cutler, Emerald: "The weather, the people (old friends and new), the flowers, the mountains, the entertainment, the camp, the food, the field trips - the polite arguments about the Monroe Maple - I loved it all! I especially remember walking in the woods and swimming in the pool in the dark, and listening to Rhoda Love and Henrietta and Kenton Chambers swap stories poolside Saturday afternoon."

Rare Plants of the Willamette Valley: Summer Intern Report

by Diana Fodor

The following is the second in a series of four articles in which NPSO/ODA interns discuss their activities during the 1999 field season. Interns were selected from a pool of applicants and worked with scientists from the Oregon Department of Agriculture/OSU Plant Conservation Biology Program to carry out research related to threatened and endangered species in Oregon. Project locations ranged from coastal beaches to serpentines of southwestern Oregon to the eastside's high desert. Interns were jointly funded by NPSO, state, and federal dollars and plan to use their experience to further their careers in botany and biology. What follows here is Diana Fodor's article on rare plants of the Willamette Valley, which continues the theme started by intern Seth Bond last month. Thanks again to NPSO for contributing to botanical education and work experience.

Tom Kaye
Plant Conservation Biology Program
Oregon Department of Agriculture

This Summer the interns with the Oregon Plant Conservation Biology Program had the honor of becoming acquainted with many rare and endangered plants. Coming from all over the country to Corvallis, Oregon we were primed to climb mountains and wade through dark forests thick with ferns, mosses, and lichens. It was more than we expected when we came upon the pure white phantom-orchid, *Eburophyton austinae*, deep within the moist coniferous forests of the southern cascades. We were awed to see the bizarre bogs of insectivorous cobra pitcher plants, *Darlingtonia californica*, growing alongside delicate white and yellow lady slipper orchids, *Cypripedium californicum*, in the Illinois Valley. The native plants of Oregon gave us beauty indescribable and moved our hearts. None of us expected many of these plants would be ones that grew in the open prairie lands of the Willamette Valley, but there are many rare plants to be found there. Of

all the places we went this summer, spending time in the open, lumpy, and snaky prairie lands of the Willamette Valley was the biggest surprise.

When I began my journey from Michigan to Oregon in late April, I was anticipating the mountain peaks and the rocky beaches that make Oregon so different from my home. I did not expect a lot of our work to be in the most populated portion of the state, the Willamette Valley. The rare plants in here exist on the remaining remnants of prairie lands that once covered most of the region. The valley is the driest land mass west of the cascades because it lies in the rain shadow of the coastal mountain range. The most common plant communities are oak woodlands, coniferous forests, grasslands, shrub communities, and riparian forests. At the beginning of the nineteenth century most of the valley was open prairie and oak forest. The land had been kept open by annual burning by native peoples to maintain habitat for wild game and edible plants. Today's rare prairie plants were all once more common in the valley a hundred or more years ago. We can only imagine the magnificent floral displays that once carpeted the valley floor every spring. The plant communities that exist in the Willamette Valley today are very different from those of the recent past, with the exception of a few native fragments.

These prairies consist of wetland and upland prairies. The wetland prairies are seasonally flooded and dominated by tufted hairgrass. The upland prairies consist primarily of well drained soils and native bunch grasses. They were both kept open by the fires of the Kalapuya people. Their fires cleared tree seedlings, brush, and many grasses. Since European settlers arrived in the valley in the mid-eighteen hundreds, the fires have been suppressed. The suppression of fire allowed tree seedlings to take hold and forest areas to encroach on prairie lands. The annual fire cycle of the Kalapuya people was



Friends of the Oregon Flora Project

We are grateful for the continued sponsorship of NPSO as we solicit funding for the new Flora and Atlas of Oregon vascular plants.

Your donation of any size will help this effort.

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interrupted by disease introduced from abroad by the settlers. The settlers also brought farming, livestock grazing, and, more recently, urban development and exotic weed plants. Today, prairie lands have become a rare ecosystem in Oregon.

There are at least ten extremely rare plant species in the Willamette valley. Many exist in such small populations that they were believed to be extinct until remnant populations were rediscovered. The Willamette Valley has so many rare plants because it has a high ecological diversity and has sustained large losses of habitat.

Bradshaw's lomatium, *Lomatium bradshawii*, Nelson's sidalcea, *Sidalcea nelsoniana*, white topped aster, *Aster curtus*, and the three colored monkey flower, *Mimulus tricolor*, are all rare plants of Willamette Valley wetland prairies. Bradshaw's lomatium is a member of the parsley family and grows nowhere else in the world except the wet open areas of the Willamette Valley and southwest Washington. Nelson's sidalcea is also endemic to the Willamette Valley and adjacent coast range. It

is highly susceptible to herbicidal spray and was once common in the valley. The white topped aster was abundant from the Willamette valley to Vancouver Island in British Columbia. It was thought to have gone completely extinct till it was rediscovered in 1978 in Oregon's native grass lands. The beautiful three colored monkey flower, once common in the valley, is also now a rare treat to see in bloom from late May to June.

Other rare prairie plants include the Willamette Valley daisy, *Erigeron decumbens* var. *decumbens*, Kincaid's lupine, *Lupinus sulphureus* ssp. *kincaidii*, shaggy horkelia, *Horkelia congesta* var. *congesta.*, Howell's montia, *Montia howellii*, the peacock larkspur, *Delphinium pavonaleum*, in the southern valley, and white rock larkspur, *Delphinium leucophaeum* in the northern valley. The white rock lark spur is only found near the Columbia and Willamette rivers and the peacock larkspur is endemic to meadow lands around the Willamette. Both are listed as in danger of extinction. The Willamette Valley daisy was once very common on the heavy soils of grasslands and prairies. It was thought to be extinct due to habitat destruction from agriculture and development in 1934. The plant was rediscovered in 1980 outside Eugene, Oregon, and is now listed as endangered.

I have been lucky to see many plants that may not be around in the future. I was also very lucky to meet and be part of a group of people who are working hard to find a way to make a future for these plants. Habitats have changed rapidly in the last century for many prairie species. We should not be slow to help them for they are part of an ecosystem which is our home too. Thanks to Tom Kaye, Kelly Amsberry, Kendra Mingo, Cormac Collier, Seth Bond, Mitchell McGlaughlin, Matt Hadley, Oregon Department of Agriculture, and The Oregon Native Plant Society.

Highlights of the State Board Meeting

October 2, 1999, Cordley Hall, OSU, Corvallis

from Rhoda Love, Secretary

The Board met on a gorgeous autumn day at Oregon State University. Many thanks to Esther McEvoy of Corvallis Chapter for securing the meeting room and providing drinks and delicious snacks.

The meeting got under way at 10:00 am sharp under the gavel of Bruce Newhouse, President. Twelve voting board members and a visitor were present. Also present were Scott Sundberg, Oregon Flora Project Coordinator, and Robert Meinke, Kelly Amsberry and Steve Gisler of the Oregon Department of Agriculture Rare Plant Program.

Treasurer pro tem Mike McKeag has shifted NPSO finances to an electronic format. He could not be present at the meeting, but sent a detailed explanation and spreadsheet of the current state of the Society's finances. An analysis of the data shows that income is up and expenditures down from the forecast for the year, indicating that the Society is presently in excellent financial health.

Bob Meinke, Director of the Oregon Department of Agriculture Rare Plant Program and his graduate students, Kelly Amsberry and Steve Gisler were invited guests. Bob reviewed the history of the State Rare Plant program since its inception in 1988, and answered our questions about its operation and funding. The Board was impressed with the group's on-going research program, but respectfully requested that NPSO receive more frequent updates from the ODA program via Bulletin articles, or in-person reports at our meetings.

Scott Sundberg, Coordinator of the Oregon Flora Project, housed at the OSU Herbarium, thanked NPSO for its on-going financial and

volunteer support, and gave us a detailed picture of the progress of the Oregon Vascular Plant Checklist, the Oregon Flora, and the Oregon Atlas. There have been some exciting recent botanical finds in the state. Five species that have not often been seen in Oregon or are new to the State have recently been reported. A species of *Potentilla* was found on Fuji Mountain; a member of the bog-bean family was found in Linn County; species of *Galium* and *Baccharis* came in from southern Oregon; and a St. John's wort has been reported.

The Flora Project hosted an excellent workshop on the genus *Salix* in September with willow expert George Argus. Dr. Argus annotated all the willows in the Oregon collection while he was in Corvallis. Approximately 45% of the Checklist is done. The Atlas is moving forward and distribution maps for selected species may soon be available on the internet. Field work to gather additional lists for the Atlas will, it is hoped, be stepped up in the next field season. Friends of the Oregon Flora has raised approximately \$8,000 for the Project to date. Several chapters reported that they have joined the "Igo Challenge." (See your September Bulletin.)

Dan Luoma is heading the Nominating Committee to choose candidates for officers and at-large board positions for the year 2000. All Chapters are asked to begin at once to recruit candidates for state offices and at-large board positions. Send names during the month of November to Dan at luomad@fsl.orst.edu

Kareen Sturgeon has asked the Board to study the issue of Field Trip Safety. She presented a number of ideas for providing more information to field trip participants and making trips safer. This topic will be revisited at the January Board meeting in Portland. Chapters are asked to send their reactions to Kareen's suggestions to that meeting. (Chapter Presidents, please see details in the minutes of the October Board Meeting.)

Wilbur Bluhm has agreed to lead a trip to the new "Oregon Garden" under development near Silverton. The date for the trip will be Saturday, November 13. The Garden is still in the preliminary stages, but has received a large grant from a Native American group to develop a Willamette Valley White oak Community. See the front page of this Bulletin for specifics of time and meeting place.

Seven chapters sent reports and all those reporting have exciting programs and field trips under way. Several report that they have taken up the "Igo Challenge" to raise funds for the Flora Project.

Current membership of NPSO state-wide is 947 members.

The next Board meeting will be on January 22 in Portland place to be announced. Mark your new Y2K calendars now!

Key to the Penstemons Now Available

The genus *Penstemon* is the largest genus of flowering plants native to North America only. Long time NPSO members Robin and Ken Lodewick of Eugene provided a great service to botanists and wildflower lovers in 1994 when they published their Descriptive Key to Oregon Penstemons in Kalmiopsis. That key contained all 46 Oregon penstemons, and 2 species in closely-related genera. In previous years, they produced other publications for the American Penstemon Society: a field identifier, nomenclatural history, and early versions of keys. The new key contains all 272 species, and an additional 15 species which are in closely related genera -- most were included in the genus *Penstemon* at one time or another.

The Introduction discusses *Penstemon* biology, taxonomy and biogeography, and introduces the reader to the keys which follow. The book contains two types of keys: a Quick Key, which

contains only one or two features in each couplet, and a Descriptive Key, which contains several additional features useful in confirming an identification. Identification features were selected that are easiest to learn and to see with a 10 power hand lens. Although the key is probably more detailed than a beginner would want to try, with a little patience and practice looking at the different shapes of anther sacs and how they open (and a few other features), nearly any budding botanist or wildflower enthusiast should be able to master the basics. The Lodewicks point out that their key is not meant to be an authoritative work for identification, but should be used as a tool, and followed up with a confirmation in a botanical manual. (Northwest Penstemons, by Dee Strickler, has full descriptions and excellent photographs that will help identify species in our area.)

The Lodewicks are true Penstemoniacs, from their ability to quote detailed features and locations of numerous species by memory, to their home landscaping which has contained over 100 species of penstemons over the years, they have an obvious passion for these stunning and varied flowers.

Key to the Genus Penstemon is self-published, and is available for \$15 postpaid from the Lodewicks at 2526 University St., Eugene, OR 97403.

Mt. Pisgah Arboretum Event

Saturday, November 13, 9-11 A.M.: Ecology of Mt. Pisgah Arboretum – Past and Future. To celebrate the Springfield-Eugene Museum Consortium's new publicity brochure, we are offering the public a free tour of the Arboretum with Tom Bettman, a member of the Board of Directors. Meet at the Visitor Center at 9 A.M.

NATIVE PLANT SOCIETY OF OREGON MEMBERSHIP FORM

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Membership is for the calendar year.
New memberships enrolled after September 1 include the following year.

Send completed form and full remittance to:

Jan Dobak, NPSO Membership Chair, 2584 NW Savier St., Portland, OR 97210-2412

Membership in the Native Plant Society of Oregon is open to all.

Membership applications, renewals and change of address (include old address) should be sent to the Membership Chair

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CHAPTER PRESIDENTS

BLUE MOUNTAIN (Pendleton) Jerry Baker 58840 Bar M Lane, Adams, OR 97810-3003; (541) 566-3381
 CHEAHMILL Kareen B. Sturgeon 1135 Winterwood Loop, McMinnville, OR 97128; (503) 472-0866
 CORVALLIS Steve Northway 24073 Decker Rd., Corvallis 97333-9510; (541) 929-5375
 EMERALD (Eugene) Marcia Cutler 835 W. 24th Ave, Eugene, OR 97405-2454; (541) 687-2559
 HIGH DESERT (Bend) Stu Garrett 1501 NE Medical Center Dr., Bend, OR 97701; (541) 389-6981
 KLAMATH BASIN David Lebo 560 Flowers Lane, Klamath Falls, OR 97601; (541) 883-8393
 MID-COLUMBIA Jerry Igo P.O. Box 603, Mosier, OR 97040
 NORTH COAST Christine Stanley P.O. Box 201, Cannon Beach, OR 97110-0201; (503) 436-0161
 PORTLAND Shane Latimer 1605 SE 36th Ave., #3, Portland, OR 97214-5123; (503) 232-7405
 SISKIYOU Jim Duncan & Elaine Plaisance 692 B St., Ashland, OR 97520-2026; (541) 482-7629
 UMPQUA VALLEY (Roseburg) Richard Sommer 240 Vineyard Lane, Roseburg, OR 97470; (541) 673-3709
 WILLAMETTE VALLEY (Salem) Walt Yungen 2020 Center St. NE, Apt. 32, Salem, OR 97301; (503) 581-9511
 WM CUSICK (La Grande) Frazier Nichol c/o Dick Kenton, 1805 U Ave., La Grande, OR 97850; (541) 963-7870

STATE COMMITTEE CHAIRS

EDUCATION Jerry Igo P.O. Box 603, Mosier, OR 97040
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 LEGISLATIVE Position vacant
 MEMBERSHIP Jan Dobak 2584 NW Savier St., Portland 97210-2412; (503) 248-9242
 BUDGETS AND GRANTS Dan Luoma 3740 NW Harrison, Corvallis 97330; (541) 752-8860

PUBLICATIONS

BULLETIN EDITOR Richard Greenough bulletin@npsoregon.org; (503) 350-2360
 10765 SW Butner Rd., Apt. 23, Portland, OR 97225
KALMIOPSIS EDITOR Linda Ann Vorobik RR 1 Box 1964, Lopez Island, WA 98261-9528; (360) 468-3188
 WEBMASTER Judy Castle 5300 SE Baseline Rd., Apt. 166, Hillsboro, OR 97123; (503) 648-2222

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Dedicated to the enjoyment, conservation, and study
of Oregon's native vegetation

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It's Renewal Time

The NPSO membership year is January to December. Now is the time for members to renew.

A remittance envelope is in this issue of the *Bulletin*. Or use the membership form on the inside back page.

NPSO brings you field trips, programs, classes, the monthly *Bulletin*, and *Kalmiopsis*.

It's also a good time to consider a tax-deductible contribution to our special funds. The Leighton Ho Memorial Award is used for research projects in western Oregon. The Rare and Endangered Plant Fund supports work with our most threatened plants. The Jean Davis Memorial Scholarship is awarded annually to a botany student at an Oregon college or university.

Your membership and donations make it possible to carry out more of the many projects that are needed to pursue the goals of NPSO.

Note for EFO Contributors: If you are receiving the *Bulletin* because you have designated part of your contribution to NPSO, your membership will continue for one year from the time of your contribution; you do not need to send a renewal payment now.

State News

Jan 22, Sat.

Board Meeting: 10 A.M. Leach Garden, 6704 S.E. 122nd Ave., Portland.

Chapter News

Blue Mountain

Dec. 6, Mon. **Meeting:** Small Business Development Center, SE 1st & Dorian, Pendleton. Dr. Steven Link from WSU Tri-Cities campus, will give a slide presentation on "Plants of the Sand Dunes."

Cheahmill

Meeting: The Cheahmill Chapter has no meeting in December.

Corvallis

Dec. 13, Mon. **Meeting:** Holiday Gathering, 7:00 P.M. at Loren Russell home at 3420 SW Willamette Avenue, Corvallis. Please bring a dessert to share, about 20 interesting slides, photos, or show and tell items for the annual get together. For more information please contact Loren at 752-7558.

New Officers for the Corvallis Chapter:

Presidents-Gaylee Goodrich / Esther McEvoy

Vice-President- Clifton Cooper

Treasurer- Dan Luoma

Secretary - Cheryl Ingersoll

Emerald (20th Anniversary Year)

Dec. 13, Mon. **Meeting:** Holiday Gathering at 7:30 P.M. Room 110, Science Building, LCC main campus. Annual holiday party! Bring 10-12 of your favorite slides, and if you wish, a finger food snack. Your chapter will provide punch, tea, and holiday decorations. See you there! Directions: Due to construction around the LCC Science building where our meetings are held, you will have to follow a new access route. Please allow a few min. extra time to get to our meeting room. Park in the southeast corner of the south parking lot, walk down the east end of parking lot to east end of Science building. NOTE: change from fourth to second Monday this month only.

Jan. 8, Sat. **Field Trip:** Lichen field trip to ash forest and swamp in Corvallis area led by Andrea Ruchty from OSU. Meet 9:00 A.M. at South Eugene High School. Back early P.M. Maybe lunch at Nearly Normal's? Bring hand lens and wear waterproof boots. For more information call Peggy Robinson, 744-0439.

Jan. 24, Mon. **Meeting:** 7:30 P.M. Room 110, Science Building, LCC main campus. "The Beautiful Blues: A Botanical Tour of the Mountains of Northeast Oregon". Danna Lytjen, long-time botanist in northeast Oregon, will present a slide show on the diverse flora and exotic terranes of the Blue Mountains.

- Jan. 29, Sat. **Field Trip:** Winter Twigs of Alton Baker Park led by Dr. Rhoda Love. Meet 10:00 A.M. at north end of Autzen Foot Bridge. Finished by noon. Dress for rain and bring hand lens and pocket knife. \$2.00 charge for winter twig key. For more information call Peggy Robinson, 744-0439.
- Feb. 12, Sat. **Field Trip:** Half-day local field trip to study lichens led by Daphne Stone. Meet South Eugene High School at 9:30 A.M. Prepare for rain and bring hand lens. For more information call Peggy Robinson, 744-0439.
- Feb. 28, Mon. **Meeting:** 7:30 P.M. Room 110, Science Building, LCC campus. "Botanizing In Baja". Gail Baker will present a slide illustrated plant ecology travelogue of the northern and southern regions of the Baja peninsula including the flora of islands in the Sea of Cortez. She has been studying plants in Baja since 1973 and her most recent visit was in March 1999.

High Desert

For information on the High Desert Chapter, call Stu Garrett at 389-6981.

Klamath Basin

For information on the Klamath Basin Chapter, call David Lebo at 883-8393.

Mid-Columbia

- Dec. 1, Wed. **Meeting:** 7:30 P.M. at the Discovery Center Theater in The Dalles. PROGRAM CHANGE: Jerry Igo, video maker extraordinary, and teacher of classes and leader of tours focusing on Lewis and Clark, will treat us to his newest video, "On the Trail of Lewis and Clark: Scientific Discoveries." This video shows the flora and fauna first found on the Lewis and Clark expedition at the original sites.
- Jan. 5, Wed. **Meeting:** 7:30 P.M. at the Discovery Center Theatre in The Dalles. Botanist and chapter member Caitlin Cray will give a slide show on using lupines in restoration work in the National Forests, titled "Common Garden Study of Broadleaf Lupine from Mt. Hood National Forest: A Step Towards Using Native Plants without Losing Too Many Native Genes in Large Scale Revegetation Projects."

North Coast

For information on the North Coast Chapter, call Christine Stanley, (503) 436-0161.

Portland

- Dec. 14, Tues. **Meeting:** 7:00 P.M. (Room open for socializing 6:30 P.M.) Room 355, Fireside Room, First United Methodist Church, 1838 Jefferson St., Portland. This is the annual members' slide night. Bring your favorites!

Siskiyou

Dec. 16, Thurs. **Meeting:** 7:00 P.M. Connie and Julian Battaile will host the Annual Dessert Potluck at their home in Ashland, 1216 Tolman Creek Road. In addition, Jim Duncan and Elaine Plaisance will present "Native Plants of Morocco" a slide show of their travels. For directions, call Connie or Julian at 488-0368. NOTE: Please Park in the Street.

Umpqua Valley

Meeting: Dec. 9, Thurs. **Meeting:** Potluck and slideshow at Hillcrest Vineyard, 240 Vineyard Lane, Roseburg. Dinner will begin at 6:30 and slideshow will follow. Call Richard Sommer at 673-3709 for more information.

Willamette Valley

For information on the Willamette Valley Chapter, call Walt Yungen at (503) 581-9511.

William Cusick

For information on the William Cusick Chapter, watch for notices in the local paper or call Barbara Russell at (541) 962-7749.

IMPORTANT NOTE TO FIELD TRIP PARTICIPANTS

Field trips take place rain or shine, so proper dress and footwear are essential. Trips may be strenuous and/or hazardous. Participation is at your own risk. Please contact the trip leader or chapter representative about difficulty, distance, and terrain to be expected on field trips. Bring water and lunch. All NPSO field trips are open to the public at no charge (other than contribution to carpool driver) and newcomers and visitors are always welcome.

NOTICE TO FIELD TRIP CHAIRS AND LEADERS

The Forest Service and other agencies have set policies limiting group size in many wilderness areas to 12. The reason is to limit human impacts on these fragile areas. Each group using wilderness areas should be no larger than 12.

POSTAL NOTICE

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Opinions expressed in this publication are those of the authors of the articles.
They do not represent the opinions of the Native Plant Society of Oregon, unless so stated.

Historical Summary, Highlights, and Facts Regarding the Plant Conservation Biology Program at the Oregon Department of Agriculture

Dear NPSO Members:

Bob Meinke of the Oregon Department of Agriculture presented this information to the State Board on October 4 in Corvallis. We thought it would be interesting for all NPSO members to read, so we asked Bob to submit this summary. (Thank you, Bob!)
Bruce Newhouse

¶ In late 1987, Oregon Senate Bill 533 (commonly referred to as the "Oregon Endangered Species Act") passed the Oregon Legislature, thanks in large part to the lobbying efforts of NPSO (especially Esther McEvoy and Julie Kierstead).

¶ Passage of SB 533 resulted in an endangered plant species protection and research program (currently called the Plant Conservation Biology Program) being created within state government, housed in the Oregon Department of Agriculture (ODA). This program officially got off the ground in February of 1988, with the hiring of one employee (Bob Meinke).

Expectations were high that ODA would hire additional state-funded plant conservation staff members over the next two to three years.

¶ In a nutshell, state laws associated with the program (i.e., ORS 564.100-564.135) provide ODA with the authority to (1) list species as endangered or threatened (after appropriate study); (2) regulate research and commercial activities associated with such taxa on state lands; and (3) provide advice on conservation efforts for listed species. This is all contingent on available public funding.

¶ State laws do not allow the regulation of listed plant species on private lands, and do not give ODA absolute authority over other state or local agencies in the management of such species on their lands. In dealing with other state agencies ODA can only act in an advisory

capacity, more or less comparable to the way the U.S. Fish and Wildlife Service advises federal agencies (such as BLM and the Forest Service) regarding federal endangered species issues.

¶ The first 19 plant species were listed as Threatened or Endangered under state law in late 1989 - there were three federally listed species at this time.

¶ Oregon Administrative Rules were developed by Bob Meinke, concurrent with the first T/E listings (in 1989), and provided a legal framework for developing conservation plans and protection goals on state-owned lands.

¶ NPSO and ODA initiated a jointly-funded internship program in 1989, which provided much needed early assistance with field projects - over 30 interns have served in this program through 1999.

¶ The 1989 legislature did not provide a significant budget increase to protect plants in the field -- no additional ODA botanists were hired despite earlier expectations.

¶ With state money not forthcoming, efforts were made to secure federal and private grants to fund program field work and increase staffing - considerable time was spent (and continues to be spent) in writing and submitting grants, resulting in enough outside funding to hire a second employee (Tom Kaye) in 1990.

¶ Subsequent legislative sessions have not resulted in funding boosts for the program, except for nominal increases to cover inflation - for example, the annual budget for July 1999-July 2000 essentially has only enough money to cover office-related overhead, indirect costs, and the salary for one botanist. After such deductions, less than \$8,000 of state money is available annually to support actual field expenses.

¶ Based on ODA research and survey efforts, additional species were listed under state law in 1995, bringing the state total of legally protected species to 61 - the federal government has seven Oregon plant species listed by this time.

¶ ODA-sponsored rules changes associated with the 1995 listings revise the wording of state plant conservation laws, so that state-listed species are now clearly protected on all non-federal public lands, include county, city, and school district properties, among others. This revision was based on advice from the Oregon Attorney General's office.

¶ An estimated 650 populations of these 61 listed species (based on partially on TNC data, as well as ODA fieldwork) now fall under the regulatory and protective auspices of ODA, many of these along roadsides or in other difficult to manage sites. Keeping track of even a fraction of these becomes a daunting task without funding increases.

¶ To enhance the program and augment staffing, a cooperative agreement was established between ODA and OSU in 1992 to allow the program to share facilities and space with the OSU Dept. of Botany and Plant Pathology. Bob Meinke was appointed to the Botany faculty at OSU in 1994, permitting his supervision of OSU graduate students who work on projects beneficial to native plant conservation in Oregon. Dr. Meinke currently serves as major advisor to five grad students (4 M.S. and one Ph.D.) in this program, all of them working on rare plants.

¶ The 1996 floods devastated parts of Salem, and virtually destroyed the ODA building, with many plant conservation biology records and pre-1995 reports lost. Operations shifted almost entirely to Corvallis and OSU at this time.

¶ By the mid-1990's, a strong research program was established through federal grants, and by 1998, the program had three full-time employees at ODA (Bob Meinke, Steve Gisler, and Kelly Amsberry), and one at OSU (Tom Kaye). Non-state funding covers nearly all work and salaries.

¶ To maintain the program's field efforts and staff levels, an estimated 60% of Bob Meinke's time is spent in grant acquisition and project supervision.

¶ ODA and the Oregon Dept. of Fish and Wildlife opposed the 1999 legislative effort to repeal SB 533, and were strongly supported by NPSO and other groups. The bill to repeal (SB 1111) was ultimately tabled in committee and narrowly averted being sent to the Senate floor.

¶ ODA expects to propose de-listing some species for the first time, in the year 2000.

Luina serpentina, *Mimulus patulus*, and *Senecio erterrae* have all been shown to be secure, based on extensive multi-year evaluations by ODA. Other species may be added to the protective lists, however, including the recently named *Mimulus evanescens* from the Great Basin, and an as yet unnamed species of *Perideridia* from southern Oregon.

¶ Bob Meinke's group at ODA and OSU has proposed and implemented 39 externally-funded projects since 1995, and is currently involved in 19 on-going research projects, all designed to protect and conserve native species. Tom Kaye, who has operated a semi-independent plant demography program for ODA at OSU since 1996, has directed studies on an additional thirteen species, with most of these long-term, multi-year projects.

¶ Only three of the species ODA has studied since 1995 are federally listed - all others are state-listed only or are state candidates (there has been concern voiced that ODA neglects state-listed species and only works on federally-listed plants).

¶ Several plants new to science have been uncovered through ODA fieldwork in recent years, including new species of *Mimulus*, *Minuartia*, *Kalmiopsis*, *Castilleja*, *Perideridia*, and *Astragalus*. All are rare and several are worthy of serious conservation efforts.

¶ ODA staff has participated in many state, national, and (through OSU) international conferences, describing the results of plant conservation efforts in Oregon. Presentations on rare plant research activities have been published in leading journals, reporting on

(continued on page 144)

Discovering the Illinois Valley Summer Intern Report

by Cormac Collier

*The following is the third in a series of four articles in which NPSO/ODA interns discuss their activities during the 1999 field season. Interns were selected from a pool of applicants and worked with scientists from the Oregon Department of Agriculture/OSU Plant Conservation Biology Program to carry out research related to threatened and endangered species in Oregon. Project locations ranged from coastal beaches to serpentines of southwestern Oregon to the eastside's high desert. Interns were jointly funded by NPSO, state, and federal dollars and plan to use their experience to further their careers in botany and biology. The following article by Cormac Collier describes his impressions from monitoring populations of Cook's desert-parsley (*Lomatium cookii*) in the Illinois Valley and his opinions about local mining activities (see the January 1999 NPSO Bulletin for more background on this subject). Thanks again to NPSO for contributing to botanical education and work experience.*

Tom Kaye
Plant Conservation Biology Program
Oregon Department of Agriculture

Last year, I spent about three months on the road traveling from the shores of the east to the shores of the west. My continental cross ended at the Pacific Ocean south of Santa Cruz, California. Then, heading north, I pattered along the coast, stopping here and there to hike around and explore. I broke away from the blue waters at Crescent City and climbed into the hills of the Siskiyou. The beautiful Smith River flowed on my right through a tremendous gorge that reminded me of a favorite spot back in Vermont. Up and over the pass, my trusty gas guzzler took me, and down into the Illinois valley. I spent the night in the Kalmiopsis Wilderness Area. I woke up, made a little breakfast, sat next to a friendly tree and read a couple of chapters from my book. Looking back on it now, it was one of those memories that makes you smile.

Little did I know that a year later I would return to this special area as an intern for the Plant Conservation Biology Program. Our study plant was Cook's desert parsley, *Lomatium cookii*, a state listed endangered species. Two population centers are known for *L. cookii*, one in the agate desert north of Medford, and one here in the Illinois valley. Our project focused on three sites. All sites were sampled for plant density, and one site was also sampled for demographic data to determine the survival rates of plants.

We set to work underneath a bright sun. My eyes were slow to receive the glare, having been used to the gray tones of winter. It was just my kind of luck to settle down in Oregon to experience one of the wettest winters on record. Needless to say, I welcomed the sun with open arms. Beginning with the density plots, we counted plants in each of several life-history stages based on vegetative plant sizes (v2, v3) and number of flowering umbels on reproductive plants (r1, r2, and r3). A soothing mantra emanated from the group with sounds of "v2, v2, v3, v2, r2, v2," as we counted plants in these classes. Low budget bingo played out by dedicated botanists. In between the numbers we shared stories and amusing jokes that we had picked up through the years. The award for best joke about a 1000 ducks went to our leader Tom Kaye while the best Scottish accent fell on fellow worker Kendra Mingo.

At night we camped out along one of the Illinois River's forks. We took a few strolls here and there to check out the surrounding plant community. A beautiful patch of the alien like Pitcher Plant (*Darlingtonia californica*) sprang out from a moist seep on the hillside. A few Bolander's lilies (*Lilium bolanderi*) broke free from the shade of the understory. Helleborine (*Epipactis gigantea*) and California lady's-slipper (*Cypripedium californicum*) displayed their brilliant flowers along the banks

of the road. It was my first opportunity to see both of these plants.

The botanical riches here in the Klamath Knot are amazing. Unfortunately the abundant diversity that this area offers is threatened by mining. As I am sure most of you are aware of, the Nicore mine project has proposed extracting nickel laterite ore in the upper headwaters region of the Rough and Ready Creek. The four mine sites are located in the Kalmiopsis Wilderness area, a rich region of relatively undisturbed beauty. The U.S. Forest Service recently issued the Final Environmental Impact Decision on the proposed mine. The Forest Service's decision allows for a 5,000 ton bulk sample to be extracted using helicopter transportation. The mine operator is required to prove that he can make a profit from the initial extraction before any further mining will be allowed. This seems like quite a task because analysts have projected a 10 million dollar loss under the current plan. Why the bulk sample is even being given the green light is rather confusing. According to the 1872 Mining Law the right to mine is allowed only when a valuable mineral has been discovered. The market for low grade laterite is at an extremely low point. Even more troubling, is that Nicore has neglected to provide the Forest Service with documents demonstrating the profitability of the mine. The alternative that the Forest Service has selected is a lot less destructive than Nicore's initial proposal. However, this justification for this new alternative plan is preposterous.

An interesting note to the controversy surrounding the 1872 mining law concerns our project with the *Lomatium cookii*. One subpopulation in our study is located directly next to another existing mining claim in the Illinois Valley. The owner of that mine could obtain the option to develop the land in the future, thus throwing the fate of the lomatium habitat into the hands of some eager individual

ready to plant his new garden with the latest petunia hybrids.

The 1872 Mining Law is simply an outdated mandate that calls for the reaping of a one-time devastating harvest of resources from public land in the name of western expansion. The law can be used to buy vast of parcels of public land for as low as five dollars an acre and then sell them back to the government for millions.

Well, I am sure the debate on the 1872 Mining Law will continue, and you don't need to read too much from me telling you how wrong it is. Coming from the northeast coast where mining is not as big of an issue, I was surprised at the intensity of the debate, especially within the serpentine areas of southwest Oregon. I am grateful for having had the chance to explore the rolling hills of the Kalmiopsis and splash in the crystal clear waters of the Rough and Ready. I would hate to see the uniqueness of this area spoiled.

I would like to thank the Native Plant Society of Oregon and Tom Kaye for giving me the opportunity to learn more about plant conservation. I would also like to thank my fellow workers Kendra Mingo, Diana Fodor, Mitchell McGlaughlin, and Seth Bond for being such good folks and for sharing the stories around the campfire.

Bob Powne, Dec. 31, 1926 – Oct. 23, 1999

Marvel Gillespie informs us with the sad news that Bob Powne passed away recently. She says: "Bob and I have been doing the Bulletin mailing for four years now, and he helped with the September labeling, etc. and took it all to the post office. A good helper, loyal, dedicated to native plants and a grand guy to know--a lot of folks, friends and family members will miss him greatly."

Opportunities for Protection of Southwest Oregon's Botanically Rich Lands in the Year Ahead

The remainder of the 20th century and the year 2000 holds great potential to achieve permanent and comprehensive protection for one of the most botanically rich areas in the nation. But this will only happen if those with an interest in southwest Oregon's Josephine ophiolite and botanical wealth are prepared to roll up our sleeves to take advantage of the periodic but rare phenomenon of an outgoing President with an environmentally friendly administration.

Rough and Ready Creek and the surrounding botanically rich Forest Service and Bureau of Land Management lands have one of the highest concentrations of rare plants in the nation. The West Fork Illinois River Watershed, including the Rough & Ready Creek and Oregon Mountain Botanical Areas and the Rough and Ready Creek, Woodcock Bog and French Flat Areas of Critical Environment Concern, is ranked number one out of 1400 fifth field watersheds in the number of rare plants in the state of Oregon. The Eight Dollar Mountain Botanical Area and ACEC and the Days Gulch and Babyfoot Lake Botanical Areas, just to the north, add to the botanical richness of this unique area. Generally these areas can be called the South Kalmiopsis.

The geology and great antiquity that make this sparsely timbered land so exceptional and nationally outstanding botanically also is cause for one of its greatest threats mining for nickel-laterites (ancient residual soils) and for gold. The Forest Service's guide to serpentine plant associations in northwestern California has found that surface mining is the greatest threat to rare species. The proposed Nicore Mine in the Rough & Ready Creek Watershed is a prime example of the threat. A gold mine is also currently proposed in the Eight Dollar Mountain Botanical Area and another large

gold mining operation is proposed for the Josephine Creek area.

In August, Senator Ron Wyden wrote to the President of the United States asking that he direct his administration to work with him and other interested Oregonians to secure additional protection for some extraordinary lands. Rough and Ready Creek is one of the five areas in the Senator's letter. The public's job in the next several months is to support Senator Wyden's proposal to protect Rough and Ready Creek and to convince the Senator and the rest of Oregon's congressional delegation that the proposed protection must include all Siskiyou National Forest Service lands on the eastern boundary of the Kalmiopsis Wilderness, from just north of the Wild and Scenic Illinois River corridor to the California border (approximately 150,000 acres), and adjacent BLM ACECs and botanically important lands. This area as an ecological whole has long deserved permanent protection and the time to achieve this is NOW.

Next, the public must let the President of the United States know that Oregon wants this larger area protected and that we support Senator Wyden's conservation initiative plus. And finally, any protective strategy must include withdrawal of the area from mineral entry. Letters to Forest Service Chief Mike Dombeck are needed asking him to immediately recommend that the Secretary of Interior withdraw Rough and Ready Creek and the South Kalmiopsis area (described above) from mineral entry in order to preserve the status quo while protective strategies are being considered.

RIGHT NOW IS A GOOD TIME TO WRITE A LETTER!

- Senator Ron Wyden, 717 Hart Senate Building, Washington, D.C. 20510-3703
- President William Clinton, The White House, 1600 Pennsylvania Ave. N.W., Washington, DC 20500
- Chief Mike Dombeck, P.O. Box 96090, Washington, DC 20090-6090



Friends of the Oregon Flora Project – into the New Millennium

The Oregon Flora Project has big plans for the year 2000. Members are preparing a demonstration of the electronic plant Atlas and a checklist of Oregon sedges, rushes, lilies, and orchids. The Asteraceae Checklist will be put online on the OSU Herbarium web site. A push will be made to gather more plant site records for mapping. We of the Friends Committee are grateful for the sponsorship of NPSO as we work to raise funds to produce the new Flora of Oregon.

The Friends Committee now has seven active members. We are currently working on grant proposals to support the project and designing a portable information display to use next spring. We now have over 100 Friends. As we approach the new millennium please consider a special end of the year donation. Join if you are not a member or meet the Igo Challenge at your next chapter meeting. Thank you NPSOers for your support! If you would like to help, please contact Keli Kuykendall at (541) 758-8409 (kuykendk@peak.org) or write her at the Friends address.

Please make checks payable to:

Native Plant Society of Oregon
and mail to:

Friends of the Oregon Flora Project
P.O. Box 402
Corvallis, OR 97339-0402

ODA Summary *(continued from page 140)*

pollination, mycorrhizal, taxonomic, and species re-introduction studies led by ODA staff and grad students.

¶ Despite the chronic lack of state funding, ODA continues to support state and local agencies and react to citizen complaints re: listed plants. The research side of the program may appear (to some observers) to be over-emphasized at the expense of addressing local botanical issues, but this is only because everyone and everything except Bob Meinke is federally funded off research-oriented grant monies - this includes all salaries, grad student support, travel, supplies, etc. Remaining staff members can only work on the projects they are specifically funded for, resulting in most of their activities being conducted on federal lands.

¶ If and when state funding is enhanced, more positions would be hired through ODA to respond to local plant problems. As it stands, ODA must rely on the agencies or local governments that actually own state lands to police their listed species, with ODA giving advice as staffing and budget allows. ODA is always open to suggestions regarding how to improve its public service.

Mt. Pisgah Arboretum Events

Sun., December 5, 10-noon: Fire Ecology Walk at Mt. Pisgah Arboretum. Led by Timothy Ingelsby, Fire Ecologist, University of Oregon, this will be a fairly strenuous hike to the summit to view the effects of the August wildfire and signs of new growth. Meet at the Arboretum's Visitor Center. \$3 donation (members free). Call 747-1504 for details.

Wed., December 22, 10-11:30 am: Winter Solstice Celebration. With Daniel Ray, reader and storyteller. An informal gathering to honor the solstice and share a passion for nature as expressed in literature. Bring your favorite readings to share or just enjoy being read to. At the Arboretum's Visitor Center. Hot cider will be served. \$2 Donation. Call 747-1504 for details.

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Send completed form and full remittance to:

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Membership applications, renewals and change of address (include old address) should be sent to the Membership Chair

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VICE PRESIDENTMichael McKeag 7461 SW 184th Pl., Aloha, OR 97007-5740; (503) 642-3965
SECRETARYRhoda Love 393 Fulvue Drive, Eugene, OR 97405; (541) 345-6241
TREASURERPosition Vacant

CHAPTER PRESIDENTS

BLUE MOUNTAIN (Pendleton)Jerry Baker 58840 Bar M Lane, Adams, OR 97810-3003; (541) 566-3381
CHEAHMILLKaren B. Sturgeon 1135 Winterwood Loop, McMinnville, OR 97128; (503) 472-0866
CORVALLISGaylee Goodrich/Esther McEvoy 1030 NW 31st Street, Corvallis, OR 97330 (541) 753-9227
EMERALD (Eugene)Marcia Cutler 835 W. 24th Ave, Eugene, OR 97405-2454; (541) 687-2559
HIGH DESERT (Bend)Stu Garrett 1501 NE Medical Center Dr., Bend, OR 97701; (541) 389-6981
KLAMATH BASINDavid Lebo 560 Flowers Lane, Klamath Falls, OR 97601; (541) 883-8393
MID-COLUMBIAJerry Igo P.O. Box 603, Mosier, OR 97040
NORTH COASTChristine Stanley P.O. Box 201, Cannon Beach, OR 97110-0201; (503) 436-0161
PORTLANDShane Latimer 1605 SE 36th Ave., #3, Portland, OR 97214-5123; (503) 232-7405
SISKIYOUJim Duncan & Elaine Plaisance 692 B St., Ashland, OR 97520-2026; (541) 482-7629
UMPQUA VALLEY (Roseburg)Richard Sommer 240 Vineyard Lanc, Roseburg, OR 97470; (541) 673-3709
WILLAMETTE VALLEY (Salem)Walt Yungen 2020 Center St. NE, Apt. 32, Salem, OR 97301; (503) 581-9511
WM CUSICK (La Grande)Frazier Nichol c/o Dick Kenton, 1805 U Avc., La Grande, OR 97850; (541) 963-7870

STATE COMMITTEE CHAIRS

EDUCATIONJerry Igo P.O. Box 603, Mosier, OR 97040
CONSERVATION, EAST SIDEStu Garrett 1501 NE Medical Center Dr., Bend 97701; (541) 389-6981
CONSERVATION, WEST SIDESteven L. Jessup 208 Harrison St., Ashland, OR 97520-2920; (541) 552-6804
LEGISLATIVEPosition vacant
MEMBERSHIPJan Dobak 2584 NW Savier St., Portland 97210-2412; (503) 248-9242
BUDGETS AND GRANTSDan Luoma 3740 NW Harrison, Corvallis 97330; (541) 752-8860

PUBLICATIONS

BULLETIN EDITORRichard Greenough bulletin@npsoregon.org; (503) 350-2360
..... 10765 SW Butner Rd., Apt. 23, Portland, OR 97225
KALMIOPSIS EDITORLinda Ann Vorobik RR 1 Box 1964, Lopez Island, WA 98261-9528; (360) 468-3188
WEBMASTERJudy Castle 5300 SE Baseline Rd., Apt. 166, Hillsboro, OR 97123; (503) 648-2222

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Jan Dobak, Membership Chair
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NATIVE PLANT SOCIETY OF OREGON
World Wide Web: <http://www.NPSOregon.org>
General Business Address: P.O. Box 902, Eugene, OR 97440
or correspond directly with the Officers and Committee Chairs listed on the inside back page.
Membership Inquiries Only: Jan Dobak, 2584 NW Savier St., Portland, OR 97210-2412